

March-April 2018  
Vol. 21, No. 3

## Special Report: Giant-Screen and IMAX Theaters in 2017

Following the trends of the last several years, the number of new IMAX theaters continued to increase dramatically in 2017, while the number of non-multiplex giant-screen theaters worldwide continued its slow decline since reaching a peak in 2005. As of Jan. 1, 2018, the world's total of all giant-screen and IMAX theaters was 1,467, up from 1,311 a year before, a net increase of 156, or 12%. In 2017, 164 theaters opened, eight closed, and ten converted from film to digital.

**Imax Corporation** opened 161 screens in multiplexes last year, while only three new non-multiplex theaters opened, one of which was IMAX. In the same period, eight GS theaters closed, five of which were institutional. Thus there was a net decline of two non-multiplex theaters in 2017, dropping the world's total from 198 at the start of 2017 to 196 as of the first of this year.

The conversion from film to digital continued apace, with ten theaters dropping 70mm film for digital projection, five of which were institutional, three multi-

plex, and two commercial destination theaters. The world inventory of GS film projectors now stands at 140, including 65 theaters with film and digital systems.

At the start of 2018 there were 1,239 multiplex theaters, 196 institutional theaters, and 32 standalone commercial theaters, including destination theaters and theme parks. There are 1,326 digital-only screens (including 56 laser systems), 119 theaters with 15/70 film projectors (59 of which also have digital projection), 14 with 8/70 film (four with digital) and six 10/70 theaters (one with digital).

Of the 228 non-multiplex theaters, 125 (55%) are digital only, and 28 of those are laser-equipped. Another 27 have both film and digital (including four laser systems), making 152 (67%) with digital capability. The remaining 75 are film only.

The count of true giant screens, as defined by the **Giant Screen Cinema Association**, stands at 262. (See page 14 for a description of what we count.)

### Openings, closings, conversions

**Openings.** Three institutional GS theaters opened in 2017, the most notable

| All theaters in 2017 |            |          |            |              |
|----------------------|------------|----------|------------|--------------|
| Operator             | Opened     | Closed   | Net        | Total        |
| Commercial           |            | 2        | -2         | 32           |
| Multiplex            | 161        | 1        | 160        | 1,239        |
| Institutional        | 3          | 5        | -2         | 196          |
| <b>Total</b>         | <b>164</b> | <b>8</b> | <b>156</b> | <b>1,467</b> |

being the **Rangos Giant Cinema** in Pittsburgh's **Carnegie Science Center**. As we have previously reported (see *Summer 2017*) last year the center closed its 26-year-old OMNIMAX theater and converted the space to a flat-screen GS theater. What had been a 350-seat, 79-foot (24-meter) dome theater with 15/70 film projection has been transformed into a 271-seat flat-screen theater with dual **Christie** laser projectors and a screen 38x70 feet (11.6x21.3 meters). The new system was installed by **D3D Cinema**. As we reported in the Summer 2017 cover story, the conversion of a dome theater to flat screen is very rare, having happened in the GS word only two other times.

**Ann Metzger**, co-director of the science center, tells *LFX*, "Overall, we've been pleased with the public's reaction to our new theater, and [theater manager] **Chad [Hunter]** has developed a diverse slate of programming that is attracting new audiences. We have indeed had some technical glitches here and there, but our staff has been able to troubleshoot and work close-

(see **THEATERS** on page 6)

### Premiering This Month

*Oceans: Our Blue Planet*  
*Backyard Wilderness*  
*Planet Power*  
*The Story of Life on Earth*  
*Pandas*  
*The Trolley*

See page 15.

### Inside LF Examiner

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### Note from the publisher

After five years in Las Vegas, the offices of *LF Examiner* (and the home of its editor/publisher) are moving to Atlanta, GA, in June. We will announce the new address and contact information shortly.

The complications of this relocation are responsible for the delay in publishing this issue, and for the expected delay in the next issue, Summer 2018, which will be published in early August. All subscriptions will be extended to make up for the missing issues. We regret any inconvenience this may cause.

Founded 1997 as MaxImage!

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## IMERSA Summit in Columbus

**I**MERSA, the association of Immersive Media, Entertainment, Research, Science, and Art, held its tenth annual Summit Feb. 24-27 in Columbus, OH, the first time the meeting has not been held in Denver. The four-day session was hosted by the **Center of Science and Industry (COSI)**, a 320,000-square-foot (30,000-square-meter) facility situated on the banks of the Scioto River.

The Summit included screenings of more than 30 fulldome shows on COSI's 60-foot (18-meter) dome, talks by four keynote speakers, presentations and panel discussions featuring more than 40 speakers, technical workshops, a banquet, and the presentation of a lifetime achievement award to **Douglas Trumbull**, the special effects legend whose credits include *2001: A Space Odyssey*, *Close Encounters of the Third Kind*, *Blade Runner*, and the *Back to the Future* ride for Universal Studios' theme parks. Trumbull spoke in detail about that project in his keynote.

COSI's dome uses a two-projector Digistar 5 full-dome system from **Evans & Sutherland**. COSI also has a 391-seat flat-screen GS theater, with a **Christie** 4K digital projector.

Brief summaries of a few of the sessions of great interest to the giant-screen world follow.

### Marketing

COSI's **Marty McDonald** and **Christine Hurtubise**, **Bob Bonadurer** of the **Milwaukee Public Museum**, and **Tina Ratterman** of **BIG & Digital**

discussed the marketing of fulldome shows and theaters. In response to concerns that the public's attention span is constantly shrinking, McDonald quoted comedian Jerry Seinfeld: "People have an infinite attention span if you are entertaining them." She said that marketers need the same flexibility as standup comedians and improv performers: you may have a plan to start with, but you have to be willing to adapt as circumstances change.

Hurtubise pointed out that programming choices will create the public's perception of the theater's and museum's brand: "Your brand is what you deliver." Along with that, she stressed, "Know your audience first, then choose and develop your content, not the other way around."

Bonadurer said that great ideas can come from unlikely places, and recalled a troublesome employee who, as she was about to be fired, angrily said at a staff meeting, "Why don't you do something for Valentine's Day?" This led Bonadurer to create a light-hearted, live, couples-only show, "Romancing the Stars," that has been extremely successful for 25 years. Each couple gets a box of chocolate and a rose included in the ticket price, which is much higher than for regular shows.

Ratterman said that theater managers need to have an "elevator pitch," a short summary of each new show to present internally to the institution's marketing department, and externally to the media, that clearly states what it is about. She also proposed theming the museum to the topic of new shows, with decorations, signage, and staff apparel. "Make it fun."

### Production

Giant-screen filmmaker and Academy Award winner **Ben Shedd** spoke on the "Craft of Immersion," sharing with today's fulldome producers the techniques of frameless cinema that he and other GS filmmakers had to discover decades ago. A key early influence on Shedd was German art and film theorist **Rudolph Arnheim** and his 1932 book *Film as Art*. When Shedd started making GS films, whose enormous canvas essentially "exploded the frame," as he would write, he realized he had to break with many of the precepts that Arnheim had laid down decades earlier



*Douglas Trumbull received IMERSA's Lifetime Achievement Award.*

# GSCA Film Expo in Seattle

The Giant Screen Cinema Association held its 2018 Film Expo in Seattle, March 12–13. The expo featured screenings of new films and presentations on films in production and development, but unlike previous spring meetings included no panel discussions or technical session.

The host of the expo was the **Pacific Science Center**, one of the few institutions to have more than one giant-screen theater. Its 290-seat PACCAR IMAX Theatre opened in 1979 with a GT 15/70 projector; it was converted to IMAX digital in 2011, but was not used for screenings at the Film Expo. Those were held in the **Boeing IMAX Theatre**, a 370-seat auditorium that opened in 1998 with and IMAX GT 3D projector and became the first institutional theater with the IMAX laser system in April 2015. Its 60x80-foot (18x24-meter) screen was used for all expo presentations.

## New Films

*Amazon Adventure* ..... SK Films  
*America's Musical Journey* ..... MacGillivray Freeman  
*Australia: Life in the Wild* ..... Wild Pacific Media  
*Backyard Wilderness* ..... Archipelago Films  
*Conquest of the Skies* ..... Colossus Productions  
*Great Barrier Reef* ..... December Media  
*In Saturn's Rings* ..... SV2 Studios  
*Mountain Quest* ..... Stranger Than Fiction Films  
*Oceans: Our Blue Planet* ..... BBC Earth  
*Pandas* ..... Imax Corporation  
*Planet Power* ..... N3D Land Films  
*The Story of Earth* ..... December Media  
*Volcanoes* ..... Digital Crossing Productions  
*We, The Marines* ..... MacGillivray Freeman

## Films in Production

*Cuba* ..... Golden Gate 3D  
*First Steps* ..... Statement Pictures  
*Great Bear Rainforest* ..... Spirit Bear Entertainment  
*Hidden Pacific* ..... Tandem Stills + Motion  
*Lost Empire of Angkor* ..... Heliograph Productions  
*Out of Bounds* ..... Wild Pacific Media  
*Secrets of the Sands* ..... Atlantic Productions  
*Secrets of the Serengeti* ..... Digital Crossing Productions  
*Secrets of the Universe* ..... Stephen Low Company  
*Snow* ..... Ouragan Films  
*Turtle Odyssey* ..... Definition Films  
*Yellowstone: Life in Extremes* ..... Grizzly Creek Films

## Films in Development

*Einstein's Incredible Universe* ..... Cosmic Picture  
*Expedition Chesapeake* .....  
..... Whitaker Center for Science and the Arts  
*Fire Fighters* ..... Sean Casey Productions  
*Gorilla Girl* ..... Archipelago Films  
*Gravity 3D* ..... December Media  
*Leonardo da Vinci, The Last Interview*  
..... Camera Lucida Productions  
*Ocean 3D* ..... Principal Large Format  
*Secrets of Antarctica* ..... BBC Earth  
*Superpower Dogs* ..... Cosmic Picture  
*Tiger Trek: Bhutan 3D* ..... Archipelago Films  
*Venom 3D: The Bite That Cures* ..... December Media

The GSCA's next meeting will be its annual conference and trade show, to be hosted by the **Tennessee Aquarium** in Chattanooga, TN, Sept 21–13. On Sept. 24 Dome Day will be held at the **McWane Science Center** in Birmingham, AL, about 150 miles (240 kilometers) away, where new films will be screened on the center's 79-foot (24-meter) dome.

For more information and to register, visit [giantscreencinema.com](http://giantscreencinema.com).

regarding framing, editing, and other film techniques. He began a correspondence with Arnheim, who had come to the U.S. in 1940 and taught at Sarah Lawrence College, Harvard, and the University of Michigan. They eventually met and Arnheim agreed with Shedd that immersive cinema was a new form that required its own esthetic.

## Full dome standards

Michael Daut, then with Evans & Sutherland (see item on page 5), discussed work that the **Association of Full dome Innovators** (AFDI) is doing to standardize the digital formats in which full dome shows are distributed. There has traditionally been very little standardization of full dome formats, with each supplier creating its own proprietary specs and configurations. At the IMERSA Summit in 2014, with the assistance of the **Giant Screen Cinema Association**, a group of full dome vendors and producers met to try and move toward greater interoperability, and they have continued to work on the problem since then, as the AFDI.

The group has developed metadata

standards that will help distributors and theaters transform shows from a master file to the “sliced” versions that each theater needs to playback the show on its particular configuration of projectors. Work is also proceeding on encryption standards, based on the Digital Cinema Initiatives (DCI) standards used for Hollywood features, that would help protect full dome shows from being copied or played without the permission of the producer/distributor. This work also promises to be of use to giant-screen theaters,

flat or dome, that use multiple projectors, a factor that has not been considered by the DCI standard.

For more information on IMERSA, visit [imersa.org](http://imersa.org).



COSI's Marty McDonald spoke in the marketing session.

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# THE BIZ

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## NEWS

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### Imax Corp. FY2017 and Q4 results

In late February, **Imax Corporation** posted its financial results for the year and quarter ending Dec. 31, 2017. For the fourth quarter the company posted a net profit after certain one-time charges of \$4.8 million (\$0.08 per share) on revenues of \$125.6 million, compared to a profit of \$8.9 million (\$0.14 per share) on revenues of \$106.9 million in the fourth quarter of 2016. For the full year, Imax had a net profit of \$2.3 million (\$0.04 per share) on revenues of \$380.8 million in 2017, compared to a profit of \$28.8 million (\$0.43 per share) on revenues of \$377.3 million in 2016.

Imax signed deals for 177 theaters (including seven upgrades) in 2017, compared to 319 (with five upgrades) in 2016. It installed 170 theater systems (five upgrades) in 2017, compared to 182 (16 upgrades) in 2016. The backlog as of the end of 2017 stood at 499, compared to 498 at the end of 2016.

As of Dec. 31, 2017, Imax reports a total theater network of 1,370 theaters, of which 1,272 are in multiplexes, 86 in museums and science centers, and 12 in commercial destinations. This is a net increase of 155 over the count at Dec. 31, 2016.

In a conference call with analysts, CEO **Rich Gelfond** said that although there are now seven pilot IMAX Virtual Reality centers in operation worldwide, the company is still experimenting with various technologies and content, before committing to a wider roll-out. "We do not anticipate opening additional VR centers or making meaningful future investments in the initiative." Similarly, the company does not plan to invest its own capital in original content, as it did with *Marvel's Inhumans* last fall. That TV show premiered its opening episodes exclusively in IMAX theaters, but was widely panned by critics and the public.

**Greg Foster**, CEO of Imax Entertainment, mentioned several coming features that will use "IMAX DNA," i.e., being filmed with IMAX cameras or expanding

certain scenes from the wider "scope" ratio (2.35: 1) or "flat" ratio (1.9:1) to 1.33 when shown in IMAX with Laser theaters. Select scenes in **Universal's** *First Man*, the story of Neil Armstrong, are being shot by director **Damien Chazelle** with IMAX digital cameras. The picture is set to open in October. Portions of *Wonder Woman 2* are being shot by director **Patty Jenkins** with IMAX film cameras for release in November 2019. And *Avengers: Infinity War*, opening this spring, was shot entirely with IMAX digital cameras. Foster said, "Our efforts to work with filmmakers and studios is a core aspect of our company strategy and rest assured there's more to come."

### New IMAX multiplex laser system

**Imax Corporation** has announced that it has signed deals with two exhibitors for a total of 142 installations of a new IMAX laser projection system designed specifically for multiplex theaters. **AMC Theatres** will install 87 of the new systems as upgrades to existing U.S. IMAX theaters by 2022, while adding the new 12-channel sound system, new rocker seats, and redesigned entryways. The deal also renews current system leases by 12 years.

**Cineworld** and its subsidiary **Regal Entertainment Group** will install the new laser system in 29 new theaters and upgrade 26 existing IMAX screens in the U.S. and Europe by 2022. As with the AMC deal, the lease terms will be extended by 12 years, and the theater sound, seating, and entrances will be updated.

The new laser system reportedly features a single projector, unlike the dual-projector laser system the company launched in late 2014. The original laser system features an anamorphic lens system that fills traditional IMAX screens, which typically have an aspect ratio of 1.33:1, by vertically stretching the native digital image, whose ratio is 1.9:1. The multiplex laser system reportedly projects the standard 1.9 digital image without any stretching. According to an article in *Variety*, the

price tag of the system will be in the \$600,000–\$700,000 range.

Imax has not given the multiplex laser system a distinct name, referring to it only as "IMAX with Laser," the same term used for the original, two-projector laser system. (The company did not respond to *LF*'s request for technical details about the system.)

### Imax theater deals in China, India

**Imax Corporation** has announced new theater deals with three exhibitors in China and India totaling 39 screens. In China, **Guangzhou Jinyi Media Corporation** will build 30 new IMAX theaters in new and existing multiplexes throughout the country. The theaters will open starting this year and be complete by 2023, with more than half opening by the end of 2019. The deal brings Jinyi's IMAX commitment to 90 screens, of which 32 are now open. Imax has contracted with exhibitors in China for a total of 885 theater systems in the country, 543 of which are currently operational. Jinyi and its subsidiaries operate more than 2,000 screens at 350 locations in China.

Since February, Imax has signed agreements with three exhibitors in India. **PVR Ltd.** will open five theaters in new and existing complexes in "major metropolitan markets," according to a press release. This brings PVR's total commitment to 15 IMAX theaters, seven of which are operational now. PVR is the country's largest theater chain, with 625 screens at 134 locations.

**INOX Leisure Ltd.** will open five IMAX screens in new multiplexes in Delhi, Mumbai, Navi Mumbai, and Gurugram, which will bring the chain's total IMAX count to ten, two of which are already running. INOX operates 492 screens in 123 multiplexes in 61 Indian cities.

**Cinépolis India**, a subsidiary of Mexico-based **Cinépolis**, will install four IMAX screens in new venues in Bangalore, Kolkata, and two other Indian cities. The exhibitor currently operates two other

# THE BIZ

## PERSONNEL

IMAX screens in India, and 21 more in seven other countries including the Mexico, U.S., and Brazil, and has commitments for a total of 31.

These deals will bring the total IMAX footprint in India to 40, with 15 currently in operation.

### Daut moves to Mousetrappe

**Michael Daut** has accepted a newly created position as director of new business development at **Mousetrappe**, a production studio in Burbank, CA. Daut tells us that, starting in mid-May, he will be “working to expand Mouse-trappe’s reach into their current client



Michael Daut

base in the themed entertainment, exhibit, and immersive theater markets, and expand opportunities for clients who are looking for extremely creative, story-driven, immersive experiences to help build an audience for their facility or attraction.” (The company was featured in *LFX*’s October 2017 article about the Ferrari Land flying ride film, *Flying Dreams*.)

Daut comes to Mousetrappe from **Evans & Sutherland**, where he has been director of fulldome show production for twenty years and creative director and marketing director for the past two years. During that time he has produced more than 20 fulldome shows and led the effort to digitize and warp 15/70 GS films for presentation in fulldome theaters. E&S now has more than 65 GS titles in its catalog.

Daut will remain on the board of the **Giant Screen Cinema Association** through his current term, and hopes to introduce Mousetrappe as a service provider to GS producers. He can be reached at michael.daut@mousetrappe.com.

### Stofan is new NASM director

The **Smithsonian’s National Air and**

**Space Museum** has named former NASA chief scientist **Ellen Stofan** as its new director, replacing **Jack Dailey**, who retired in January after leading the museum for 18 years. Stofan will be the seventh director of the 42-year-old museum, and the first woman to hold the position. She starts on April 30.



Ellen Stofan

Stofan is a planetary geologist who holds a bachelor’s degree from the College of William and Mary and a doctorate from Brown University. She worked at the Jet Propulsion Laboratory as deputy project scientist on the Magellan mission to Venus. From 2013 to 2016 she was chief scientist at NASA. She is author of two National Geographic books on planetary geology.

In March, Dailey was presented with the 2018 National Air and Space Museum Trophy for Lifetime Achievement, honoring his “distinguished career of over 60 years of service to the United States in all aspects of aviation and space.”

### Morrison leaves nWave Pictures

**Jan Morrison** has left her position as CFO of **nWave Pictures** to found **Gundagai Consultants**, which will “offer business development and management services for creative enterprises, including entertainment content producers, distributors and exhibitors; documentary filmmakers; and new technology startups.”



Jan Morrison

Morrison tells *LFX* that she started at nWave 20 years ago, when founder **Ben Stassen** and producer **Charlotte Huggins** set up shop in Los Angeles to finish *Encounter in the Third Dimension*. “Being a

small company, everyone at nWave wears many hats: mine included business affairs for crew, talent, music rights, and film acquisitions; distribution contracts and participation reports; production accountant; production office manager; financial accounting; script editor; writing press releases and marketing blurbs; raising film investment funds and liaising with sponsorship agents.”

She can be reached at morrison.cgi@gmail.com.

### In memoriam: Rocco Montesano

**Frank “Rocco” Montesano**, executive director emeritus of the **USS Lexington Museum** in Corpus Christi, TX, died in mid-April. He was 68. Montesano joined the WWII-aircraft-carrier-turned-museum in April 1998 and led it until his retirement late last year. In 2001 he oversaw the installation of a 193-seat MEGAsystems 8/70 theater on the ship’s hangar deck, which was converted to digital in 2012 and upgraded to laser in 2017.



Rocco Montesano

After graduating with a bachelor’s degree from the U.S. Naval Academy in Annapolis, MD, in 1971, Montesano served as a naval aviator in the U.S. Navy, logging 5,500 flight hours and over 900 carrier landings. During Operation Desert Storm he commanded a squadron of A6 attack aircraft and won three awards as executive officer and commanding officer. He was commanding officer of the Naval Air Station in Corpus Christi from 1994 to 1996, retiring from the navy in 1998 with the rank of navy captain.

Montesano is survived by his wife of 46 years, a son and a daughter, two sisters, four brothers, and two grandchildren. The family requests donations to the museum in lieu of flowers.

(from **THEATERS** on page 1)  
ly with D3D on solutions.”

The other institutional openings were at the **Papalote Children’s Museum** in Monterrey, Mexico, and the **National Museum of the Marine Corps** in Quantico, VA. The former, which officially opened in June 2017, has a 360-seat theater with a 52.5x68.9-foot (16x21-meter) screen and an IMAX laser projector. The latter opened in July and has a unique system that uses two blended Christie laser projectors to project an image with a 1.33:1 aspect ratio on its 54x72-foot (16.5x22-meter) screen when screening *We, The Marines*, the signature film produced by **MacGillivray Freeman Films**. It uses a separate DCI-compatible 4K projector (with the standard digital 1.9 ratio) for all other shows. It seats 369.

The remaining 161 openings last year were IMAX theaters in multiplexes, and included seven laser systems. New IMAX theaters opened in 21 countries in 2017, including 112 theaters in China, bringing that country’s count to 512. The U.S. got 16 new IMAX screens last year, putting its total at 401; France and Russia got four each, and India, Mexico, and the U.K. got three each. As of the start of 2018, our data (based largely on information from Imax Corporation) lists 1,344 IMAX theaters in 71 countries worldwide. (However, Imax’s official statements give the number as 1,370, a discrepancy we have not been able to clarify.)

**Closures.** Eight theaters closed last year, one of which has already been discussed: the **Rangos OMNIMAX Theatre** in Pittsburgh. Two other major museum IMAX theaters closed: the first was the IMAX Dome theater at the **Museum of Science and Industry** in Tampa, FL, which was a victim of a dramatic downsizing of the museum to reduce operating expenses. The 353-seat theater opened in July 1995

and closed in August 2017.

The second was the **Samuel C. Johnson IMAX Theater** at the **Smithsonian’s National Museum of Natural History** in Washington, DC. The museum’s director claimed that the closure was needed to expand the cafeteria, and although the plan provoked an outburst of objections from prominent members of the GS community (see *Sept. 2017*), they could not

to use the film projector, which was installed in 1991.

The 77-seat **Kreanova** theater in the **Kreativum** science center in Karlshamn, Sweden, closed for renovation last summer, and its 17-year-old **MEGAsystems** 8/70 projector was removed. According to management, the 36-foot (11-meter) dome may reopen as a planetarium, although it is not clear when.

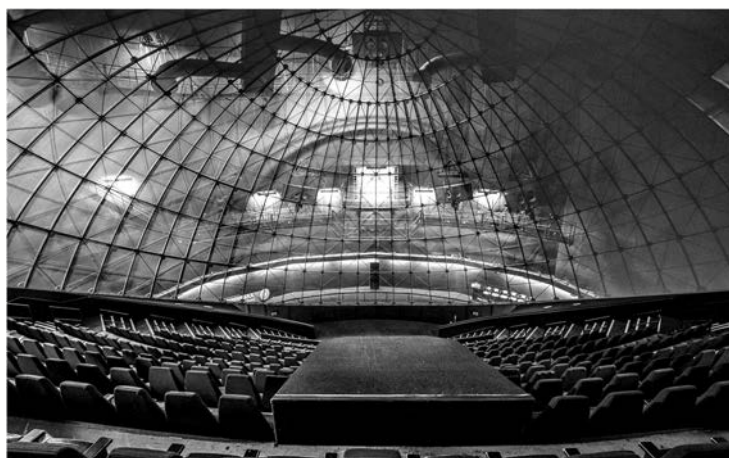
Two commercial theaters closed last year. As we reported in January 2017, the **Zion Canyon Giant Screen Theatre** closed after years of declining attendance. The 486-seat theater, located near the entrance to Zion Canyon National Park in Utah, opened in 1994 with a **Cinema Development Company** 15/70 projector to show a signature film about the park directed by **Kieth Merrill**. It was the first GS theater in the world to convert to digital when its film system was replaced by two Christie 2K projectors in 2008.

**Space World**, a theme park in Kitakyushu, Japan, opened with a 600-seat IMAX theater in 1990. However, its attendance had been in decline since peaking in 1997, and its owner closed the park, and the theater, on Dec. 31, 2017.

**Conversions.** Nine GS theaters changed projection formats, all but one of them dropping film for digital. The one exception was the **CGV**

**Yongsan IMAX** in Seoul, South Korea, a multiplex that traded its first-gen IMAX digital system for an IMAX laser system.

Three museum theaters dropped IMAX film for non-IMAX digital. Atlanta’s **Fernbank Museum of Natural History**, which opened its 315-seat IMAX theater in 1992, replaced the GT projector with a Christie laser system installed by D3D Cinema, as did Chicago’s **Museum of Science and Industry** with its 31-year-old dome theater. (The latter hosted the 2017 conference of the Giant Screen Cinema Association last



*Before and during: the Carnegie Science Center’s Rangos OMNIMAX Theater (above) was converted to the flat-screen Rangos Giant Screen Theater, seen below during the construction process, before the screen was hung.*



prevent the destruction of one of the world’s premiere GS theaters. The 487-seat theater opened in May 1999 and closed last September.

Two 8/70 theaters closed in 2017. The **Iwerks Motion Picture Theater**, a 174-seat dome theater at **Eastern Florida State College** in Cocoa, FL, was damaged by Hurricane Irma in September, and the building in which it was housed has not yet reopened. The college has not determined whether the theater will reopen, but if it does it will almost certainly not continue



*The National Museum of the Marine Corps' Medal of Honor Theater.*

fall.) In New Jersey, the **Liberty Science Center** converted its 24-year-old IMAX dome to the western hemisphere's largest full-dome theater (88.6 feet, 27 meters) with an 8K **Evans & Sutherland** Digistar 6 system that uses 10 projectors (*see Shorts, February 2018*). Although the theater will use the Digistar's extensive astronomical capabilities to present star shows and full-dome programs, it will also continue to show GS films from the library of titles E&S has converted for full-dome theaters.

Two institutional theaters switched from IMAX film to IMAX laser digital. Canada's **Montreal Science Centre** removed its 19-year-old GT3D projector in February 2017, and the **Scientific Center of Kuwait** removed its SR projectors, originally installed in 2000, last June.

**Destination Cinema, Inc.**, which has developed and operated seven destination theaters since 1984, converted two of them from 8/70 film to **Barco 4K** with the assistance of D3D: the **Hearst Castle Theater** in San Simeon, CA, (which got a laser system) and the **Niagara Falls Adventure Theater** on the New York side of the famous waterfall. Both show signature films produced for their locations. DCI's IMAX theaters on the Canadian side of Niagara Falls and at the Grand Canyon continue to run their 15/70 film projectors, as they have since 1979 and 1984 respectively.

The growth over time of the various categories of GS theater – multiplex, commercial standalone, and institutional – is shown in Chart 1 below. Because the dramatic growth of multiplex theaters in the last decade tends to mask the subtler changes of the other segments, Chart 2 on page 8 removes multiplexes and shows only the other two, as do several other charts that follow.

### More lasers

Ten new laser theaters opened in 2017,

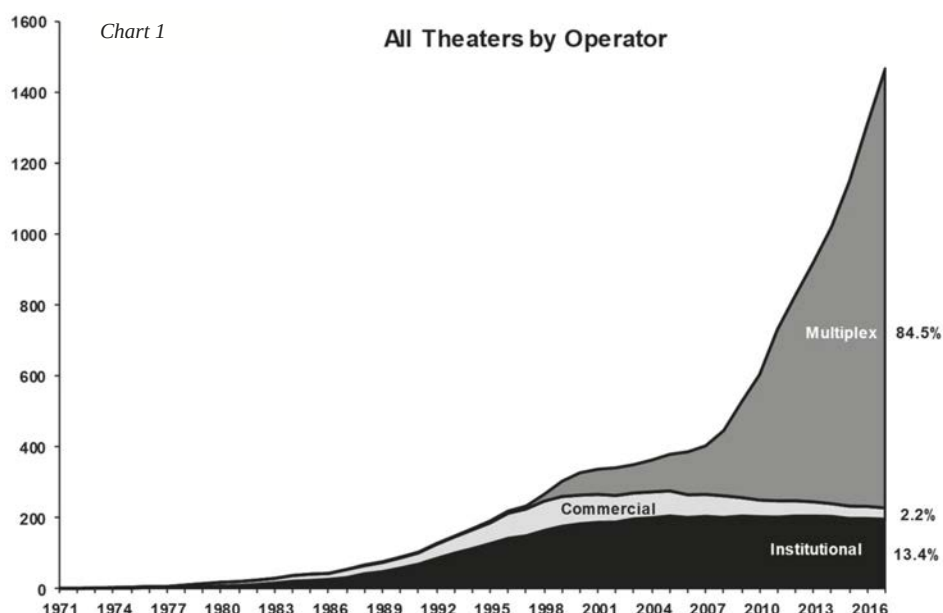
eight of which were in IMAX multiplex houses, and six older theaters were converted, as mentioned above. A total of 63 GS theaters now have laser projection, 51 of which are IMAX. Multiplexes have 31 laser systems, 26 are in institutional theaters, and six are in commercial standalone venues.

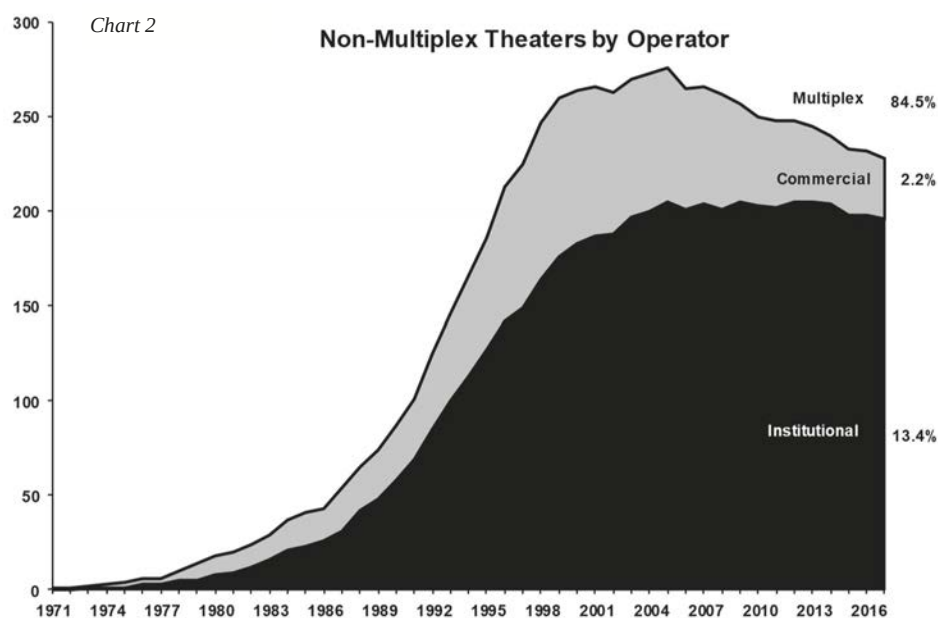
### Film theaters

As of the first of the year, a maximum of 140 film projectors were in place in GS theaters worldwide, although this number overstates the count of systems actually being used. Our practice, since our first theater report twenty years ago, has been to count projectors that are in place and capable of being used, even if they haven't actually been used to run shows for some time. This doesn't come into play for most museum and science center IMAX film theaters, which run their projectors all day, every day. But in other segments it can be somewhat trickier to determine whether the film projectors are actually in use, as we detail below.

Chart 3 on page 8 shows how the numbers of the various projection formats have changed since 1971.

**8/70.** Starting in 1987, a total of 107 8/70 film projectors were installed by manufacturers including **Iwerks** (now Simex-Iwerks), **MEGAsystems**, **Kinoton**, (*see THEATERS on page 8*)





(from **THEATERS** on page 7)

and others, as a less expensive alternative to 15/70. At their peak in 2005, some 79 systems were nominally operational, although the selection of titles printed to 8/70 was always smaller than that available in 15/70. The last new 8/70 projectors were installed in 2007, shortly before the introduction of DCI-compatible digital cinema systems. Since then they have been steadily removed from service.

Our database showed 19 8/70 theaters nominally in operation as of Jan. 1, 2018, as we began research for this report. Six of them did not reply to our queries about the status of their film systems. The Web sites of one or two of these stated or suggested that the film system was still in use, but most gave no outward sign of running 8/70 prints.

Of the 13 that responded to us, we learned that the two mentioned above (Cocoa, FL, and Karlshamn, Sweden) had closed completely. Two others removed their 8/70 projectors last year, and now only run digital shows. The historic **Douglass Theater** in Macon, GA, installed a MEGAsystems 8/70 projector in a major renovation in 1997, but only ran a handful of GS titles for a couple of years. The system remained in place (and therefore in our lists) until last summer, but was last used in 2000.

The **Rheged Theater** in Penrith, Cum-

bria, UK, opened in 2000 with a signature film about the history of the region (titled **Rheged**) that was hailed in GS circles for its successful use of drama. Located in a heritage center with a grass roof, the 250-seat theater regularly ran that film and 8/70 prints of a number of other GS titles during its first decade, before adding digital projection in 2009. From that time on, the film system languished mostly unused. Last summer, the platter and sound system were removed, disabling the system. The digital projector is still used to run

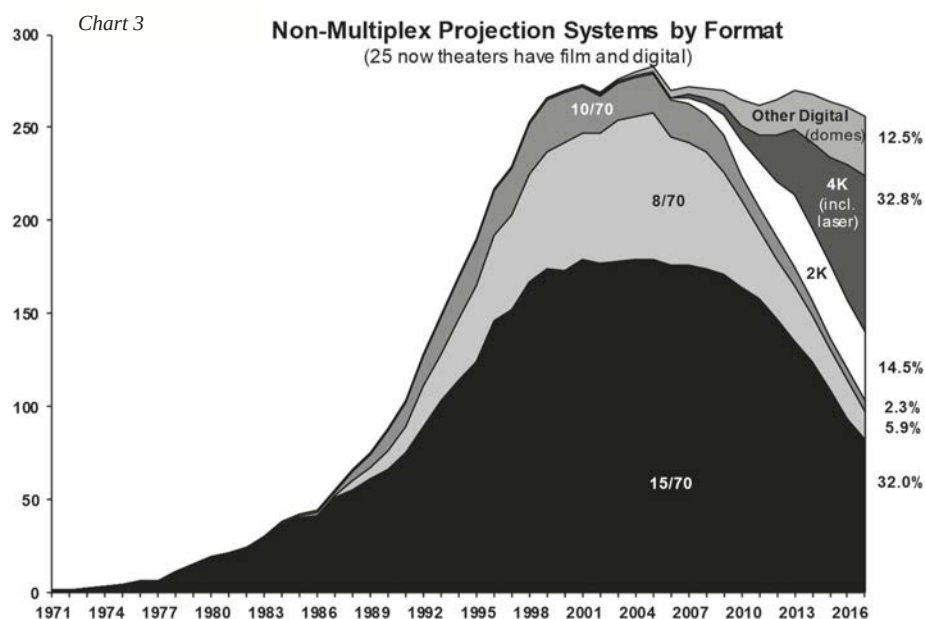
Hollywood features. (No digital version of the signature film was ever created.)

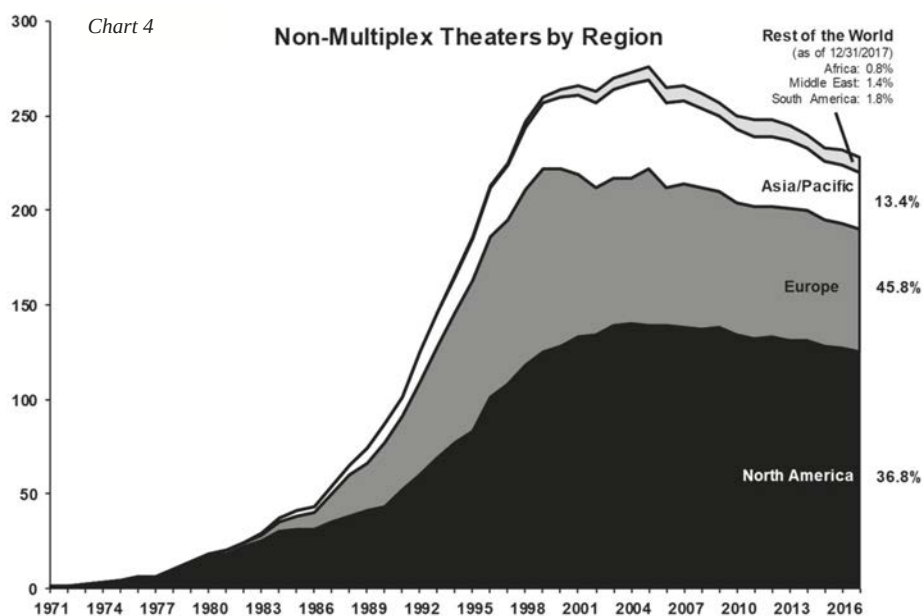
We got confirmation, thanks to **Michael Daut** at Evans & Sutherland (*until recently, see page 5*), that Japan's **Nagasaki Science Museum** removed its 8/70 projector a few years ago, and now relies entirely on the Digistar 5 full-dome system E&S installed in 2012.

Five of the other erstwhile 8/70 operators we heard from all told the same story: the projector is still in the booth and could (probably) be used if needed, but we haven't done so in years. They include theaters in Erie, PA; Kenner, LA; Oakland, CA; Alexandria, Egypt; and Pitea, Sweden.

This leaves a grand total of only three theaters that are *definitely* still running 8/70 shows on a regular, if not daily, basis. The **Paulucci Space Theatre** at Minnesota's **Hibbing Community College** is a 60-seat, 41-foot (12-meter) dome with a MEGAsystems projector that was installed in 1994. It shows GS films, including **Whales** (1996), **Solar Max** (2000), **Volcanoes of the Deep Sea** (2003), and **Forces of Nature** (2004) twice a month.

The **Strasenburgh Planetarium** at the **Rochester Museum and Science Center** in upstate New York has been running films on its Iwerks 8/70 projector since 1995, along with live planetarium shows using its Zeiss Model VI projector. The 65-foot





(20-meter) dome seats 225 people and runs GS films and laser shows for the public on weekends and for school groups on weekdays.

Finally, the **Maxoom Theater** at the **Oekopark Hartberg** theme park in Austria lists on its Web site a library of 16 GS films that run in its 279-seat theater on weekends. Its Ballantyne 8/70 projector was installed in 2003.

**10/70.** The Astrovision 10/70 film system was developed by Japan's **Goto Optical Manufacturing Co.** in the mid-1990s to give users of its opto-mechanical planetarium systems the option of screening GS films. Between 1997 and 2009 some 35 of these projectors were installed, mostly in Japan. As of the start of this year, only six remained in operation, the count unchanged from last year. However, representatives of Goto tell us that **Science City** in Kolkata, India, removed the 10/70 system from its 360-seat dome theater in March. The 21-year-old theater will reopen in July with a **Zeiss PowerDome** full-dome system featuring six Christie projectors and 3D capability.

**15/70.** The film format invented by the founders of Imax Corporation in 1970 remains in use in 119 theaters as of the first of the year, half of which (59) also have some digital projection system. This represents a drop of ten over the past year.

As with 8/70 systems, it is not a simple

matter to determine precisely how many 15/70 projectors actually remain in operational condition. In virtually all of the film-only theaters in museums and science centers, they are used all day, every day. However, many theaters that have added digital many report using their film projectors less and less.

Some 38 IMAX 15/70 systems are located in multiplex theaters, alongside IMAX digital projectors that are used daily. Most of these film units have not been used in years, and have only been kept in a state of

semi-readiness in case another major blockbuster is released on 15/70 film.

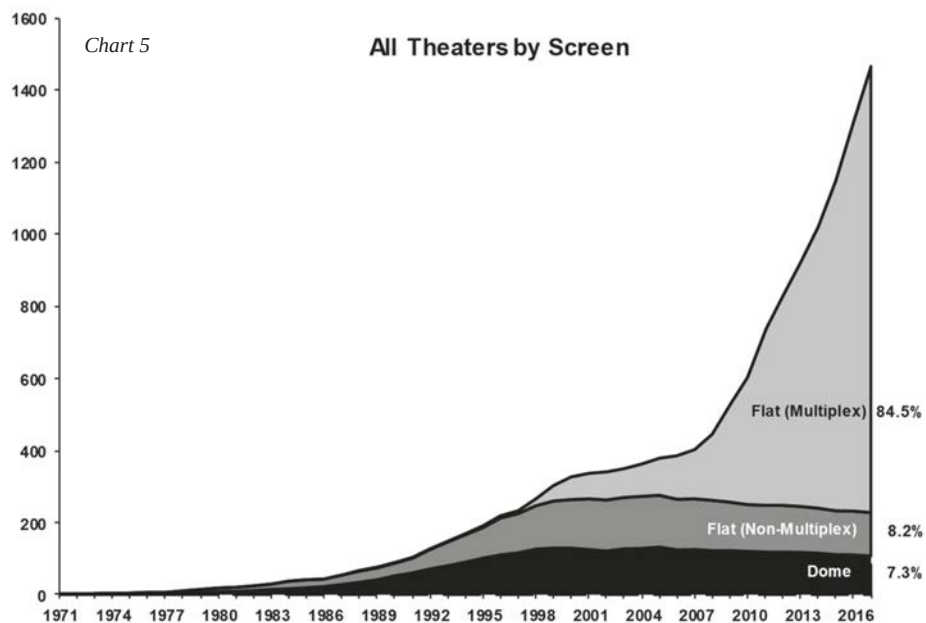
Although Imax's chief quality officer **David Keighley** has publicly hinted that another film release may be coming from Hollywood, it seems unlikely that most, or even many, of the multiplex 15/70 projectors could be brought back into service. Only nine of them showed the most recent 15/70 film, **Christopher Nolan's *Dunkirk***, last summer, and only ten ran ***Star Wars: The Force Awakens*** in late 2015. The majority of the 15/70 bookings of both those titles were in institutional theaters. Although most of the multiplex managers *LF Examiner* has contacted about their 15/70 machines have said that they *could* be brought back into service, many admitted it would be a complicated and expensive project. To say nothing of the fact that few experienced 15/70 projectionists remain on staff at these theaters.

As a result, although we say the count of 15/70 film projectors stands at 119, the number that are actually usable (not to say used), is closer to 80. If the current trend of declining numbers were to continue unchanged, there would be no film-based GS theaters by about 2023. However, as we have pointed out in past reports, there is nothing to stop a theater with both digital and film systems to keep operating its

(see **THEATERS** on page 10)



The Strasenburgh Planetarium in Rochester, NY, still uses its 8/70 film projector.



(from **THEATERS** on page 9)

film projector indefinitely, as long as 15/70 prints (and projectionists) haven't all faded away.

### 2D vs. 3D, dome vs. flat

All new systems installed in 2017 were 3D capable, as are 92% of the 1,467 GS and IMAX theaters we count as of Jan. 1. All multiplex theaters are 3D, as are all but 19 of the 121 flat-screen non-multiplex theaters. Conversely, only eight of the 105 dome theaters can project stereo 3D. Of the two extant convertible-screen theaters, one is 2D, the other is 3D. See Chart 5.

### True giant screens

The Giant Screen Cinema Association defines "giant screens" as domes that are at least 60 feet (18.3 meters) in diameter, and flat screens at least 70 feet (21.3 meters) wide or at least 3,100 square feet (288 square meters) in area, with all seats placed less than one screen width from the screen plane. As of Jan. 1, 262 theaters met that standard, an increase of five from the previous year, but a decline from the peak of 287 in 2007, the year before digital theaters were introduced. As can be seen in the small uptick at the top right of Chart 6, that increase is due to a number of new IMAX laser theaters in multiplexes. Among non-multiplex screens, the total is declining.

As the chart also shows, one third of the compliant theaters are in multiplexes, about 10% are in standalone commercial venues, and the remaining 57% are in institutions. Slightly more than half (141) are digital-only, one-quarter (65) are film-only, and the remainder (56) have both. Forty-two (16%) have laser projectors, almost a third (83) are domes, and two-thirds (177) are IMAX theaters.

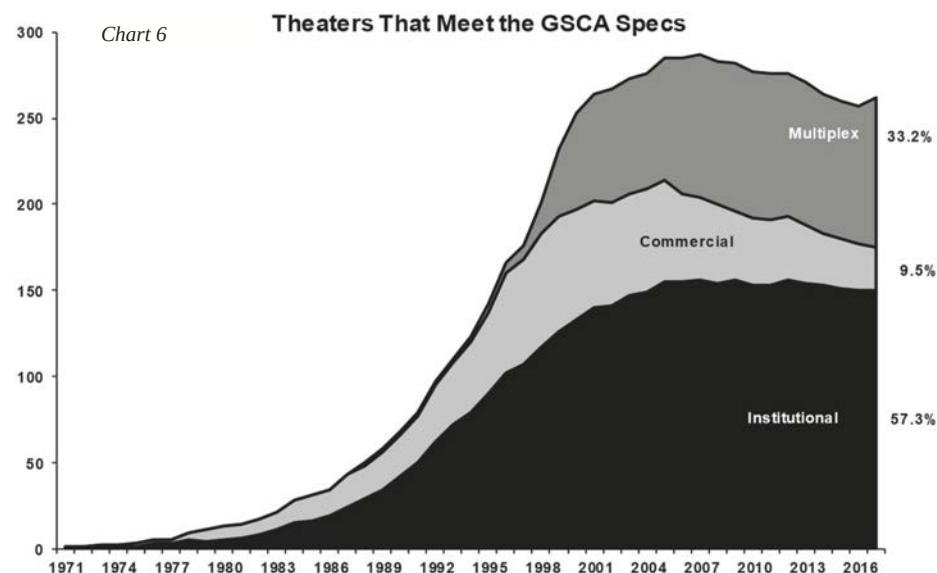
### Giant fulldomes

As we mentioned in last year's theater report, there are at least 120 digital full-dome theaters worldwide that meet the

GSCA spec for dome size. We have not included them in this or previous reports because, lacking 70mm film systems, they have historically not participated in the market for GS films.

However, as all forms of cinema have converted to digital over the past decade, the GS and fulldome worlds have inevitably begun merging: film domes have added or converted to fulldome systems, and thanks in large part to Evans & Sutherland's conversion and distribution of many GS films, more and more digital fulldome theaters that never had film projectors are showing nature documentaries from GS distributors. Nearly 50 dome theaters that have (or once had) film systems are now equipped with fulldome systems. We mentioned the most prominent new example above: the Jennifer Chalsty Planetarium in New Jersey's Liberty Science Center, which converted from IMAX 15/70 to E&S's 8K Digistar 6.

To date, a handful of domes have switched to digital systems that are not considered fulldomes because they do not include the astronomical imagery generators included with systems provided by E&S, Goto, **Sky-Skan**, and other vendors. For instance, the digital dome system provided by D3D and Christie, installed at the **Great Lakes Science Center** in Cleveland, and at the Museum of Science and Industry in Chicago, are digital dome systems, but are not characterized as



“fulldomes.”

In the next few months, Imax Corporation will hold a private demonstration of its long-awaited digital laser system for domes, with the first permanent installation expected to open to the public in November. Many film dome operators have been holding off on a decision until it was possible to compare the image quality and price of Imax's offering to those available from other suppliers. The IMAX system will reportedly use a single projector in the central “doghouse” position, and will therefore be somewhat less complex (and possibly less expensive) than systems that use up to ten smaller projectors to tile the dome.

Some managers of film theaters look more favorably on single-projector solu-

tions and are wary of the potential alignment and maintenance issues with multi-projector systems. One pointed out to *LFX* that each of the ten Christie Boxer projectors used in the 8K E&S installation at the Liberty Science Center uses six UHP lamps that would have to be replaced roughly twice a year, at a cost of about \$600 apiece. Sixty lamps times \$600 twice a year comes to an annual lamp budget of \$72,000, not including the labor involved.

On the other hand, *LFX* has also heard from skeptics who doubt that Imax's single laser projector will be able to provide enough light for larger domes, and who point out that it will be limited to 4K resolution, unlike the multi-projector systems that currently go as high as 8K, and could

theoretically go even higher. They also note that modern auto-alignment and auto-blending systems provide nearly flawless images and are virtually maintenance-free. Indeed, Imax and other vendors use them for most dual-projector flat-screen installations.

So the next year or two could see the start of a rush of domes finally giving up their film projectors for digital, and the continued merging of the giant-screen and fulldome worlds.

## Imax's scorecard

To date, Imax Corporation has converted 20 non-multiplex IMAX film theaters to its first-gen IMAX digital, and 15 to the IMAX laser system. At least one more is  
(see *THEATERS* on page 14)

## Imax's Scorecard

The following **non-multiplex theaters** have converted to or added a digital projection system to a booth that once had a giant-screen film projector. Unlike the rest of this report, which only counts theaters opened by Dec. 31, 2017, this table lists some theaters that have opened, or will open, in 2018 or beyond.

### Wins (IMAX film to first-gen IMAX digital)

|                                                               |      |
|---------------------------------------------------------------|------|
| 1. Suzhou Culture & Arts Centre, China                        | 2010 |
| 2. Virginia Air and Space Center, Hampton                     | 2010 |
| 3. Challenger Learning Center, FL                             | 2010 |
| 4. Denver Museum of Nature and Science, CO                    | 2010 |
| 5. Clark Planetarium, UT                                      | 2010 |
| 6. World Golf Hall of Fame, FL                                | 2011 |
| 7. Marbles Kids Museum, NC                                    | 2011 |
| 8. Pacific Science Center, WA (PACCAR Theater) <sup>1</sup>   | 2011 |
| 9. Xi'an Da Ming Palace, China                                | 2012 |
| 10. Esquire IMAX Theatre, CA <sup>1</sup>                     | 2012 |
| 11. Jordan's Furniture, Natick, MA                            | 2012 |
| 12. British Film Institute, London <sup>1,4</sup>             | 2012 |
| 13. Museum of Marine Science & Technology, Taipei             | 2012 |
| 14. Tropicana Casino And Resort, NJ                           | 2013 |
| 15. Glasgow Science Center, UK                                | 2013 |
| 16. LG IMAX Theatre Sydney, Australia (closed) <sup>1,6</sup> | 2013 |
| 17. Navy Pier IMAX Theatre, IL <sup>1,3</sup>                 | 2013 |
| 18. National Media Museum, UK                                 | 2015 |
| 19. Indiana State Museum, IN                                  | 2016 |
| 20. Cinépolis IMAX Toluca Centro                              | 2016 |

### Wins (IMAX film to IMAX laser system)

|                                                 |      |
|-------------------------------------------------|------|
| 21. Pacific Science Center, WA (Boeing Theater) | 2015 |
| 22. Smithsonian Udvar-Hazy, VA                  | 2015 |
| 23. Melbourne Museum, Australia                 | 2015 |
| 24. Jordan's Furniture, Reading, MA             | 2015 |
| 25. Telus World of Science Edmonton, AB         | 2015 |
| 26. Tennessee Aquarium, Chattanooga             | 2016 |
| 27. Science North, Sudbury, Canada              | 2016 |
| 28. Auto and Technik Museum, Sinsheim, Germany  | 2016 |
| 29. Smithsonian Air and Space, DC               | 2016 |
| 30. IMAX Victoria, Canada                       | 2016 |
| 31. Branson IMAX, MO                            | 2016 |
| 32. Kinemax, Futuroscope, France                | 2016 |
| 33. Bullock Texas State History Museum, TX      | 2016 |
| 34. Montreal Science Center, Canada             | 2017 |
| 35. Scientific Center of Kuwait                 | 2017 |

### Wins (IMAX digital to IMAX laser system)

|                                                  |      |
|--------------------------------------------------|------|
| 36. CineStar Event Cinema, Germany               | 2015 |
| 37. Liaoning Science & Technology Museum, China  | 2016 |
| 38. Museum of Discovery and Science, FL          | 2016 |
| 39. Papalote Childrens' Museum Monterrey         | 2017 |
| 40. Science Museum of Minnesota <sup>1,3,4</sup> | 2019 |

### Losses (IMAX film to non-IMAX digital)

|                                                             |      |
|-------------------------------------------------------------|------|
| 1. Swiss Transport Museum, Lucerne <sup>2</sup>             | 2008 |
| 2. Moody Gardens, TX <sup>2,5</sup>                         | 2009 |
| 3. Science Museum, Osaka <sup>3</sup>                       | 2009 |
| 4. 63 City, South Korea <sup>2</sup> (closed)               | 2010 |
| 5. Dreamworld, Australia                                    | 2011 |
| 6. Hastings Museum, NE                                      | 2011 |
| 7. Millennium Point Cinema, UK (closed)                     | 2011 |
| 8. Taipei Astronomical Museum, Taiwan <sup>3</sup>          | 2011 |
| 9. Houston Museum of Natural Science, TX                    | 2012 |
| 10. Evergreen Aviation Museum, OR                           | 2012 |
| 11. Cradle of Aviation Museum, NY <sup>2,3</sup>            | 2012 |
| 12. Putnam Museum of History and Natural Science, IA        | 2012 |
| 13. Kansas Cosmosphere and Space Center <sup>3</sup>        | 2012 |
| 14. Milwaukee Public Museum, WI <sup>2,3</sup>              | 2013 |
| 15. Air Force Museum Theater, OH                            | 2013 |
| 16. Polynesian Cultural Center, HI                          | 2013 |
| 17. Oregon Museum of Science and Industry                   | 2013 |
| 18. Malecon 2000, Ecuador                                   | 2013 |
| 19. Kentucky Science Center, Louisville                     | 2014 |
| 20. Memphis Pink Palace Museum, TN                          | 2014 |
| 21. Science Museum of Virginia, Richmond <sup>3</sup>       | 2014 |
| 22. Yellowstone Giant Screen Theatre, MT                    | 2014 |
| 23. Virginia Aquarium and Marine Science Center             | 2014 |
| 24. Whitaker Center for Science and the Arts, PA            | 2014 |
| 25. Entergy Giant Screen Theatre, LA                        | 2015 |
| 26. National Infantry Museum, GA <sup>5</sup>               | 2015 |
| 27. National Science and Technology Museum, Taiwan          | 2015 |
| 28. National Museum of Natural Science, Taiwan <sup>3</sup> | 2015 |
| 29. Saitama City Space Theater, Japan <sup>3</sup>          | 2015 |
| 30. Science Centre Singapore <sup>3</sup>                   | 2015 |
| 31. Naval Aviation Museum <sup>5</sup>                      | 2016 |
| 32. The Henry Ford, MI <sup>5</sup>                         | 2016 |
| 33. Canadian Museum of History, QC <sup>2,5</sup>           | 2016 |
| 34. New Mexico Museum of Space History <sup>3</sup>         | 2016 |
| 35. Great Lakes Science Center <sup>3,5</sup>               | 2016 |
| 36. Arizona Science Center <sup>5</sup>                     | 2016 |
| 37. Tokorozawa Aviation Museum                              | 2016 |
| 38. Fernbank Museum of Natural History, GA <sup>5</sup>     | 2017 |
| 39. Museum of Science and Industry, Chicago <sup>3,5</sup>  | 2017 |
| 40. Carnegie Science Center <sup>5,7</sup>                  | 2017 |
| 41. Liberty Science Center, NJ <sup>3</sup>                 | 2017 |
| 42. Omaha Zoo                                               | 2018 |

### Losses (non-IMAX film to non-IMAX digital, meet GSCA specs)

|                                                                |      |
|----------------------------------------------------------------|------|
| 43. Saitama Space Science Hall, Japan <sup>3</sup>             | 2008 |
| 44. Zion Canyon Giant Screen Theater, UT (closed)              | 2008 |
| 45. Rheged Centre, Penrith, UK                                 | 2009 |
| 46. Shonandai Cultural Center, Japan <sup>3</sup>              | 2009 |
| 47. Mie Adventure Park, Japan <sup>3</sup>                     | 2009 |
| 48. National Planetarium, Malaysia <sup>3</sup>                | 2009 |
| 49. Central Texas College, Killeen <sup>3</sup>                | 2010 |
| 50. Sanuki Children's Center, Japan <sup>3</sup>               | 2010 |
| 51. National Science Museum, South Korea <sup>3</sup>          | 2010 |
| 52. Mayborn Planetarium, TX <sup>3</sup>                       | 2010 |
| 53. Yamanashi Science Museum <sup>3</sup>                      | 2010 |
| 54. COSI Columbus, OH                                          | 2011 |
| 55. Louisiana Art and Science Museum, Baton Rouge <sup>3</sup> | 2011 |
| 56. New Mexico Museum of Natural History and Science           | 2011 |
| 57. Telus Spark, Calgary, Canada <sup>3</sup>                  | 2012 |
| 58. Koriyama Municipal Science Museum, Japan <sup>3</sup>      | 2012 |
| 59. Tamarokuto Science Center, Japan <sup>3</sup>              | 2012 |
| 60. Washington Pavilion of Arts and Sciences, SD <sup>3</sup>  | 2012 |
| 61. Kansas City Union Station, MO                              | 2013 |
| 62. Mukai Chiaki Children's Science Museum, Japan <sup>3</sup> | 2013 |
| 63. Pushpa Gujral Science City <sup>3</sup>                    | 2013 |
| 64. Kurashiki Science Center, Japan <sup>3</sup>               | 2014 |
| 65. Tondabayashi Subaru Hall, Japan <sup>3</sup>               | 2014 |
| 66. Davis Planetarium, MS <sup>3</sup>                         | 2014 |
| 67. Bhasani Novo Theatre, Bangladesh <sup>3</sup>              | 2014 |
| 68. Fukui Children's Science Center, Japan <sup>3</sup>        | 2014 |
| 69. Eugenides Planetarium, Greece <sup>3</sup>                 | 2015 |
| 70. Clay Center for the Arts and Sciences, WV <sup>3</sup>     | 2015 |
| 71. Vulcania, France                                           | 2015 |
| 72. Maloka Interactive Science Center <sup>3</sup>             | 2016 |

### Notes

1. Kept IMAX film projector, added IMAX digital
2. Kept IMAX film projector, added non-IMAX digital, dropped IMAX brand
3. Tilted dome
4. Will get IMAX laser system
5. Non-IMAX laser
6. Closed, will reopen with laser in 2019.
7. Converted from dome to flat screen.



\* New listing.  
DMR films are separated from original GS films and listed with fewer details.  
All films are 3D unless noted; underlined titles are 2D.  
Updated information is printed in **bold**.  
Unless noted, all films run about 40 minutes.

#### In Saturn's Rings

SV2 Studios; distributor: BIG & Digital; director, producer, writer, executive producer: Stephen van Vuuren. Narrator: LeVar Burton. 2D. Release: May 4, 2018 (flat and dome version); fall 2018 (fulldome).

#### Australia's Great Wild North (formerly Australia: Life in the Wild)

Wild Pacific Media, Definition Films; distributor: Madman Entertainment, K2 Communications; director, DP: Nick Robinson; executive producers: John Weiley, David Gross, John Maynard, Mark Kresser. Release: June.

– Principal photography is complete.

#### Great Barrier Reef 3D

December Media; distributor: MacGillivray Freeman Films; directors: Stephen Amezdroz, Richard Fitzpatrick; producers: Stephen Amezdroz, Matt Downey; script: Don Hahn; executive producers: Tony Wright, Stuart Menzies. **Release: July 1.**

– Principal photography is complete. Post production has begun.

#### Big Flight (formerly Wingsuit Flyers)

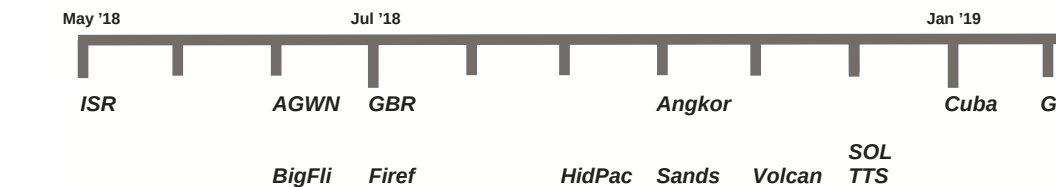
Big Flight Holdings, LLC; distributor: K2 Communications; director: Christopher J. Scott; producers: John Molli, Christopher J. Scott, Aschi Michel, Tom Fore; DP: Robert Hollingworth; script: Christopher J. Scott; executive producers: Rob Sharps, Doug Greenstein, W. Kyle Gore, Daniel Verbic, Tom McCollum. Release: Summer 2018.

#### Firefighters

Sean Casey Productions; distributor: tba; director, DP: Sean Casey; producer: Jen Casey; script: Mose Richards. Release: Summer.

#### Lost Empire of Angkor

Helio Films, Definition Films; distributor: K2 Communications; director, writer: John Weiley; produc-



ers: Murray Pope, Dave Gross. Release: October.  
– January: Scouting in Cambodia.

#### Hidden Pacific

Giant Screen Films, Tandem Stills + Motion; distributor: Giant Screen Films, D3D Cinema; director, producer: Ian Shive. Release: Fall.  
– Principal photography is complete.

#### Secrets of the Sands

Atlantic Productions; distributor: Serengeti Entertainment. 2D. Release: Fall.

#### Volcanoes

Digital Crossing Productions; distributor: SK Films; director, producer, DP: Michael Dalton-Smith; script: Michael Dalton-Smith, Karen Gordon; score: Daniel Sadowski; executive producers: Jonathan Barker, Michael Dalton-Smith. Cast: Carsten Peter. Release: Fall.

#### Sea of Love 3D (wt)

Achtel Pty. Ltd.; distributor: tba; director, producer, DP: Pawel Achtel; script: Jan Aldenhoven. Release: December.

#### Touch the Stars

Afterglow Studios; distributor: BIG & Digital; director, producer: Luke Ployhar; script: Scott Pearson. Release: late 2018.

– The film is about 40% complete. Live action shooting will begin in 2018.

#### Cuba

Golden Gate 3D; distributor: Giant Screen Films; director: Peter H. Chang; producers: Peter H. Chang, Violet Angell, Robert Mooring; DPs: Peter H. Chang, Christopher Doyle HKSC, Peter Zuccarini; script: Mose Richards, Robert Mooring; executive producers: Neil Nightingale, Mike Day, Jonathan Rowe, Kelyn Brannon. Cast: Patricia Torres, Eusebio Leal, Daria Siciliano, Fernando Bretos. Release: January 2019.

#### Great Bear Rainforest (wt)

Spirit Bear Entertainment; distributor: MacGillivray Freeman Films; directors, producers, DPs, script: Ian McAllister, Jeff Turner; executive producers: Byron Horner, Kyle Washington. Release: February 2019.

– Principal photography is complete. Post production has begun.

#### Leonardo da Vinci: The Last Interview\* (wt)

A biography of the famous artist told through a re-enactment of a 1517 meeting with the Cardinal of Arago.

Camera Lucida Productions; distributor: MacGillivray Freeman Films; director: Francois Bertran; DP: Vincent Mattias; script: Serge Bramly, Francois Bertrand. Executive producer: Francois Bertrand. **Release: March 2019.**

– Filming in Italy and at Clos Lucé, Amboise, France, where Leonardo died.

#### Superpower Dogs (wt)

Cosmic Picture; distributor: Imax Corporation, Cosmic Picture; director: Daniel Ferguson; producers: Taran Davies, George Duffield, Daniel Ferguson, Dominic Cunningham-Reid; DP: Reed Smoot; script: Daniel Ferguson. **Release: March 2019.**

– March-April: Shot water rescue dog, Reef, in mock water rescues in Italy.  
– April: Shot record-breaking group photo of over 100 dogs and their owners in Los Angeles and search and rescue dogs in Whistler, BC, Canada.  
– May: Filming in New York, Italy, and Kenya. Principal photography wraps May 20.

#### Secrets of the Universe

Stephen Low Company; distributor: K2 Communications; director: Stephen Low; producer: Pietro Serapiglia; executive producers: Bob Kresser, Mark Kresser. Narrator: Simon Helberg. Release: April 2019.

#### Back From the Brink

Sean Casey Productions; distributor: tba; director, DP: Sean Casey; producers: Jen Casey, Sean Casey; script: Mose Richards. Release: Spring 2019.

– February-March: Filming foxes on the Channel Islands, CA, and Golden eagles in northern California.  
– Film is fully funded.

#### Secrets of the Serengeti

Digital Crossing Productions; distributor: SK Films; director, DP: Michael Dalton-Smith; producers: Michael Dalton-Smith, Jonathan Barker; script: Michael Dalton-Smith, Wendy MacKeigan; executive producer: Jonathan Barker. Release: Spring 2019.

– February: Filming in Serengeti National Park, Tanzania.

#### First Steps

Statement Pictures, CNN Films; distributor: tba. 2D. Release: Summer 2019.

#### Snow

St. Thomas Productions, nWave Studios; distributor: nWave Pictures; directors: Cyril Barbançon, Jacqueline Farmer; producer: Jacqueline Farmer; DPs: Cyril Barbançon, Jacqueline Farmer; script: Philippe Chappuis; score: Franck Marchal; executive producer: Eric Dillens. Release: Summer 2019.

– Scouting locations in Belarus and will resume filming in the next few months.

#### Turtle Odyssey

Definition Films; distributor: SK Films; director, script: John Weiley; producer: David Gross; DPs: Nick Robinson, Caspar Mazzotti, Jon Shaw; executive producer: Jonathan Barker. Release: Summer 2019.

– February: Nesting sea turtles at Raine Island, Australia.

BRF Leon SOTU  
SupDog

BFTB Sereng

1stSte

Snow

Turtle

AncCav Eleph FeaDin  
OOB DolAmb TrainT

EIU →

**Ancient Caves (wt)**

Oceanic Research Group; distributor: MacGillivray Freeman Film Distribution; director, DP: Jonathan Bird; producers: Jonathan Bird, Art Cohen; script: Jonathan Bird, Art Cohen; score: Bruce Zimmerman; executive producer: Shaun MacGillivray. Cast: Dr. Gina Moseley, Dr. Larry Edwards, Brian Kakuk, Todd Kelly. 15/70 only. 2D. **Release: Fall 2019.**

- April: Made difficult dives to film in Crystal Caves in Abaco, Bahamas.
- Spring, summer, fall: Filming in Minnesota, France, Mexico, and Iceland.

**Out of Bounds (wt)**

Wild Pacific Media; distributor: K2 Communications; director: Caspar Mazzotti; producers: Nick Robinson, Dave Gross; script: Nick Robinson. Cast: Torah Bright. **Release: Fall 2019.**

- March-April: Filming begins in British Columbia, Canada.

**The Dolphin Ambassador (wt)**

Milbrand Cinema; distributor: MacGillivray Freeman Films; director, producer, DP: Lance Milbrand; editor: Dave Choice; score: Icarus Music. Cast: Kathleen Dudzinski, Eldon Bolton. **Release: 2019.**

- February-March: Filming in remote offshore areas along Honduras and the southern Mesoamerican Barrier Reef.

**Elephant**

Wild Expectations, Ltd.; distributor: tba. **Release: 2019.**

**Feathered Dinosaurs (wt)**

Saint Thomas Productions; distributor: K2 Communications. Narrator: James Faulkner. **Release: 2019.**

**Train Time (wt)**

Stephen Low Company; distributor: Stephen Low Company; director, script: Stephen Low; producers: Pietro Serapiglia, Stephen Low; executive producer: Paul Globus. 2D. **Release: 2019.**

**Einstein's Incredible Universe (wt)**

Cosmic Picture; distributor: tba; director: Daniel Ferguson; producers: Taran Davies, George Duffield, Daniel Ferguson; script: Daniel Ferguson, Mose Richards; DP: Reed Smoot. **Release: fall 2020.**

**DMR FILMS:**

| Title                      | Dist | Release  |
|----------------------------|------|----------|
| Solo: A Star Wars Story    | WDPD | 5/25/18  |
| Incredibles 2              | WDPD | 6/15/18  |
| Jurassic World 2           | UP   | 6/22/18  |
| Ant Man and the Wasp       | WDPD | 7/6/18   |
| Mission Impossible—Fallout | PAR  | 7/26/18  |
| The Darkest Minds          | FOX  | 8/3/18   |
| The Predator               | FOX  | 9/14/18  |
| Venom                      | SONY | 10/5/18  |
| Fantastic Beasts 2         | WB   | 11/16/18 |
| Robin Hood                 | LG   | 11/21/18 |
| X-Men: Dark Phoenix        | FOX  | 2/14/19  |
| Alita: Battle Angel        | FOX  | 12/21/18 |
| Avatar 2                   | FOX  | 12/18/20 |



A Stephen Low Company crew filming at the Large Hadron Collider at CERN in Switzerland for Secrets of the Universe.

(from **THEATERS** on page 11)

signed to install the laser dome system, but will not get it until late in 2018 at the earliest. Four theaters have switched from IMAX digital to IMAX laser, for a total of 40 non-multiplex screens that Imax has converted to one of its digital systems.

However, from 2008 to the end of 2017, 41 theaters have dropped the IMAX brand and switched to a non-IMAX digital system, including ten laser conversions. Some of these owned their IMAX film projector and continued using it after they stopped using the IMAX brand; three continue to do so. Earlier this year, the **Henry Doorly Zoo** in Omaha, NE, removed its 20-year-old IMAX GT film projector and installed a Christie 4K laser system. (Because it happened after Dec. 31, 2017, Omaha's conversion is not counted elsewhere in this report.)

Many other theaters could be considered losses for Imax: they meet the GSCA's standard for giant screens and formerly had a non-IMAX film system. Five are flat screens and 25 more are domes. Adding the five to the 42, we see that Imax has won 40 and lost 47.

### The future of 70mm film

Digital cinema projection became a practical reality ten years ago when the first 2K DCI-compliant systems were released using open, non-proprietary technology. In 2010 the first 4K projectors were rolled out, and within a few years virtually all multiplex theaters had switched from 35mm or 70mm film to digital.

Giant-screen theaters were slower to convert, waiting for evidence that digital projection could match or exceed 15/70 film, but that concern was alleviated with the shootouts at **Moody Gardens** in Galveston in early 2011 and 2012 that offered side-by-side comparisons of 4K digital and 15/70 film.

As we mentioned above, two-thirds of all non-multiplex theaters now have digital capability. Of the 75 film-only theaters remaining, two-thirds are domes, and as noted above, once the IMAX laser dome system is unveiled, many will finally have all the information they need to select a replacement for their aging film projec-

tors. Funding prospects for capital projects at museums being what they are, it may still take a few years for the majority to make the switch, but it is clearer than ever that the days of 70mm film projection are numbered.

All but the most fanatical film devotees recognize that digital projection, particularly with laser projectors, already matches or exceeds the image quality of 15/70 film, and new technologies such as high frame rate (HFR) and high dynamic range (HDR) offer the potential of greatly exceeding film for brightness, color depth, and contrast. Further off on the horizon, direct-view LED panels could also become part of the future of the premium cinema experience, with brightness and contrast levels orders of magnitude greater than even the best laser projection. (See "**LED Screens**," *April-May 2017*.) A March article in *Variety* reported that Imax was "exploring the potential for using video walls...in its theaters" and quoted Imax's Keighley as saying, "If we bring out LED walls, they'll be the best in the business."

If the giant-screen business is to remain vital and relevant and continue to serve its primary function of supporting the educational missions of museums and science centers around the world, it must offer experiences that the public can have nowhere else, not in conventional theaters, nor on their home TVs, nor on their mobile devices. The giant-screen experience has been unique for nearly 50 years, but has become stagnant in many respects, even as new technologies have been adopted. Digital systems offer vast new options for programming beyond the standard 40-minute nature documentary, but despite that versatility, no new "killer app" has emerged that provides a compelling immersive experience, fulfills the institutional mission, and provides a viable revenue stream.

Hollywood and multiplexes tried HFR, notably with **Peter Jackson's *The Hobbit***, but audiences rejected the experience, perhaps because the enhanced reality of the format revealed actors wearing makeup and costumes on a set, instead of providing a window into a fantasy world. Using HFR to show the real world in GS documentaries might avoid such prob-

lems, but it will require a daring GS filmmaker to prove that point. Those of us old enough to remember **Douglas Trumbull's** Showscan system (5-perf 70mm at 60 fps) in the 1980s, or the IMAX HD system (15/70 at 48 fps), which was used for a single film — ***Momentum*** (1992) — still recall how incredible and realistic the experience of HFR can be. HFR is far simpler and less expensive to achieve digitally than it ever was with film, and Trumbull and others are still championing it.

HDR also greatly enhances the cinematic experience, and is being spread to multiplexes through **Dolby Cinema** theaters, exclusively in **AMC** locations for now. With brightness levels twice those of conventional digital cinema and 50% higher than even IMAX laser, Dolby's unique system provides stunning contrast levels and detail in the brightest and darkest scenes. Unlike HFR, which the public and the studios remain wary of, awareness and acceptance of HDR seems to be growing slowly but steadily. This is helped by the fact that the technology is available to consumers in many 4K television sets.

GS filmmakers and theaters would be wise to consider how HFR and HDR, separately or together, could enhance and revitalize the GS experience, and take steps to allow more productions to be shot and screened using the technologies. They may not be panaceas, but we won't find out if we don't try.

What is clear is that things need to change if the GS business is to reverse the slow downward trend of the last decade. New forms of content, new technologies, new business models, and new audiences may all be part of the solution. Continuing along the same path as if nothing has changed will not be.

### What we count

This report counts all operating 15/70, 10/70, and 8/70 theaters; theaters that have converted from one of those film formats to digital; IMAX digital theaters; and a growing number of digital theaters in museums, whether DCI-compliant or using a proprietary format such as the new D3D/Christie laser system. This yields a total, as of Jan. 1, 2018, of 1,467 theaters in 74 countries worldwide.

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## Premiering This Month

### **Oceans: Our Blue Planet**

Produced by **BBC Earth** and **OceanX Media** and distributed by **Giant Screen Films** and BBC Earth. Directed by **Mark Brownlow** and **Rachel Butler**, produced by **Neil Nightingale** and **James Honeyborne**, photographed by **Ted Giffords**, **Chris Bryan**, **Gavin Thurston**, **Roger Munns**, **Alexander Vail**, **Rod Clarke**, **John Shier**, **Joe Platko**, **Daniel Zatz**, **Hugh Miller**, **Richard Wollocombe**, **Alfredo Barroso**, and **David Reichert**, score by **Hans Zimmer**, **Jacob Shea**, and **David Fleming**. Executive producers: **Ray Dalio** and **Jonathan Williams**. Release: March 16.

"*Oceans: The Blue Planet* is an extraordinary journey of discovery and wonder, transporting the audience to the deep, mysterious worlds of our oceans. Packed

with drama, awe, and spectacle, we reveal untold stories of the ocean's most astonishing creatures.

"The oceans are the only place on earth where the rate of new scientific discovery is increasing, expanding our frontiers of knowledge and revealing richer diversity than we could ever have imagined. From the freezing shores of the Arctic to the balmy waters of the tropics, we share these extraordinary new discoveries.

"Using revolutionary underwater and on-board filming technology, we'll dive into the giant void of the big blue to explore the most spectacular locations, dramatic events, and intimate lives of the ocean's most extraordinary creatures. Through these encounters we'll also discover how we all depend on the health of

this, the largest environment on earth."

### **Backyard Wilderness**

Produced by **Archipelago Films** and **Arise Media** and distributed by **SK Films**. Directed, produced, and written by **Andrew Young** and **Susan Todd**, score by **Gil Talmi**, photographed by **Andrew Young**. Executive producers: **Jonathan Barker**, **Sean B. Carroll**, **Stephen Apkon**. Release: March 21.

"*Backyard Wilderness* will surprise and entertain viewers with the unexpected wonders of nature that are right under our noses, in our own backyards. Spanning a seasonal year around a suburban home, the film displays a stunning array of unique wildlife images and behavior, all

(see **PREMIERING** on page 16)

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We do not count the one remaining IMAX motion simulator (in the **Futuroscope** theme park in France) or the two IMAX systems that have been installed in private homes in North America. We do count two IMAX theaters that are not open to the general public: on the **Carnival Vista** cruise ship, and at the film school of the **University of Southern California**, which is used primarily for instructional purposes.

A film theater is counted as long as it has the capability of showing one of the GS formats, even if it has stopped doing so on a regular basis. If the film projector has been removed or disabled, and no qualifying digital replacement has been installed, we consider the theater "closed."

Digital "insert" projectors, which project a relatively small image on a portion of the screen (flat or dome), are not counted as digital replacements or as dual film/digital capability in the absence of a system that fills all or most of the screen.

Thanks to data provided by Imax Corporation, we have nearly complete details on the screen dimensions of IMAX theaters worldwide. This has enabled us to improve the accuracy of our count of theaters that meet screen-size component of the GSCA spec mentioned in the main

article. That number has been growing. At the beginning of 2017 there were 439 theaters with screens over 70 feet wide, of which 295 were IMAX theaters in multiplexes. As of the start of 2018, those numbers were 485 and 343, respectively.

However, the GSCA requirement that all seats be within one screen width of the screen introduces uncertainty in our count, since Imax's data did not include the distance from the screen to the last row of seats. Since 2008, *LF Examiner* has measured the screen and seating dimensions of 125 theaters, including 89 multiplex screens, using a precise laser device. Some IMAX multiplex screens meet the GSCA spec, usually because they were built specifically as IMAX GT or SR film theaters. However, very few retrofitted former 35mm theaters or new digital IMAX theaters do. Even if their screens are large enough, the auditoriums are often too deep to meet the GSCA's criteria. We therefore presume, unless we have press reports or other information to suggest otherwise, that new IMAX multiplex screens do not meet the seating criterion of the GSCA spec.

Although the vast majority (93%) of IMAX multiplex theaters fall into this category, we include them in our overall

count primarily because they occasionally show the original GS documentaries films released by Imax with co-production partners like **Warner Bros. Pictures** and **Walt Disney Studios**, and because a handful of smaller chains with IMAX theaters occasionally book GS films from independent producers.

We do not count the premium large-format (PLF) theaters that many theater chains have introduced in the last few years, because they never show original GS films.

As noted in the main article, there are about 120 fulldome theaters worldwide that meet the GSCA spec that we have never listed, because they never used a GS film format and have not shown GS films. However, since many films are now being distributed in fulldome formats, *LF Examiner* is considering whether to include them in our database and in future theater reports. Your views on this topic are welcomed.

Past years' totals in this report may not agree with those in previous reports because we are constantly updating our database as we learn of theaters that opened or closed in previous periods.

from **PREMIERING** on page 15)

captured by cameras mounted inside dens and nests, and moving along the forest floor and pond bottom, to reveal its inhabitants in rare and breathtaking intimacy.

"We follow Katie, a young girl, and her modern family living next to the woods who are, at first, blind to the real-life spectacle around them, absorbed by an array of electronic devices in their busy lives. Katie gradually discovers the intricate secrets that nature has hidden so close to her front door and we experience the joy she finds in her interactions with this new world. The film reminds us that wifi is not the only connection that matters and that sometimes in ordinary places you can uncover extraordinary things that can transform you forever: you just need to step outside."

### **Planet Power**

Produced by **N3D Land Films** and distributed by **nWave Pictures**. Directed by **Pascal Vuong** and **Ronan Chapalain**, produced by Pascal Vuong, **Catherine Vuong**, photographed by **Vern Nobles**, score by **Franck Marchal**. Executive producer: **Eric Dillens**. Narrators: **Courtney Lin Jones**, **Christopher Swindle**. Release: March.

"**Planet Power** tells the story of electricity, from the first spark created by man's hand to the largest power plants, from the age of miracles to the age of industry, from Benjamin Franklin's kite to Solar Impulse, the first solar-powered plane capable of perpetual flight. Thus it is also a story of pioneers, scientists, and inventors, one that began 200 years ago, driven by innovation. Today electricity is indispensable to mankind. The energy of choice for innovation and development, electricity is also the energy of our future, as long as it is produced in cleaner and more sustainable ways. By mixing traditional animation and CGI with spectacular aerial shots, **Planet Power** shows how renewable energy can help us fight climate change while improving our quality of life and protecting the environment. Now, thanks to clean technologies, the greatest forces of nature can help make our planet cooler and our future better."

### **The Story of Earth**

Produced and distributed by **December Media**. Directed by **Russell Scott**, produced by **Tony Wright** and **Matt Downey**, photographed by **Benjamin Cunningham**, script: Russell Scott and **Wayne Fimeri**, score by **Dale Cornelius**. Executive producers: **Tony Wright**, **Stuart Menzies**. Release: March.

"This is the story of a remarkable planet, unlike any other we know. Born from dying stars, it was sculpted by violent collisions in space. Yet this hostile ball of molten rock was destined to transform itself



Pandas

into a nurturing environment that gave birth to life forms that have not been found anywhere else in the universe. Using groundbreaking visual realizations based on real images and the latest science the film explores the work of geologists piecing together the mystery of how our planet formed."

### **Pandas**

Produced and distributed by **Imax Corporation**. Directed by **David Douglas** and **Drew Fellman**, produced by Drew Fellman, photographed by David Douglas. Cast: **Ben Kilham**. Release: April 6.

"Pandas, an IMAX original film for the

whole family, is a story of hope, friendship and survival. At China's Chengdu Panda Base, the scientist leading a successful captive breeding program is ready to take a bold new step. Inspired by the work of a black bear rehabilitator in New Hampshire, a team of U.S. and Chinese scientists collaborate on an innovative project to release captive-born pandas into the wild—using methods never previously tried with pandas. Captured with IMAX cameras, the film follows the journey of a young cub named Qian Qian as she leaves the comfort of the panda base behind and prepares for a life-changing journey into the misty mountains of Sichuan."

### **The Trolley**

Produced and distributed by **Stephen Low Company**. Directed and written by **Stephen Low**, produced by **Pietro Sera-piglia** and Stephen Low, photographed by **Tristan Breuwer**. Executive producer: **Paul Globus**. Narrator: **Maurice Dean Wint**. 2D. Release: April.

"Perfected in the 19th century workshop of American inventor Frank Sprague, the first functional electric trolley was embraced as a miracle of the electric age: a device that could rid streets of suffocating piles of horse manure and flies and even re-invent civilization. And it did.

"The electric streetcar, tram, or trolley was a ride that changed everything. Across a century and a half, trolleys carried billions of people to work and play and home again. Gifted with extreme efficiency and an egalitarian outlook, the device helped revitalize and rebuild the urban landscape.

"Created expressly for giant IMAX screens, **The Trolley** propels audiences on a kinetic, electrifying, and music-charged journey through great cities across the globe, revealing the trolley's own roller coaster ride: from humble birth to explosive, world-transforming success, to near obliteration in the automobile age, to its technological renaissance in the 21st century. From the trolley's kinetic vantage, we witness 150 years of explosive change and discover the hidden magic of the trolley itself."

# Bookings: March-April 2018 by Film

## 574 bookings of 86 films in 157 theaters

These listings to not include Hollywood films shown in multiplex IMAX theaters. Those films are listed when they are shown in non-multiplex theaters, and conversely, non-Hollywood giant-screen films showing on multiplex IMAX screens are also listed.

Listings shown in **bold face** below are new or updated listings. The rest are unchanged from the previous

month's issue.

The data on the following pages are ***not*** warranted to be comprehensive or accurate in every detail, despite our best efforts to make them so. They have been compiled from theater surveys, distributors, the Web, and other sources.

We will make every effort to improve the thorough-

ness, and accuracy of these data. If your theater or film is not shown here, please get in touch with us to update our listings.

Where a date is not shown, it means that no date was provided by the source or, in the case of a closing date, that no date has been set, or that the run is indefinite.

**The key to film abbreviations is on page 21.**

| Film     | Theater                   | Open           | Close           | Film     | Theater               | Open           | Close           | Film        | Theater                     | Open            | Close          |
|----------|---------------------------|----------------|-----------------|----------|-----------------------|----------------|-----------------|-------------|-----------------------------|-----------------|----------------|
| ACGOTS   | Columbus GA NIM           | 5/26/17        | 6/17/18         | AMMM     | <b>Regina</b>         | <b>5/11/18</b> | <b>5/12/19</b>  | DSC         | Davenport Put               | 2/24/17         | 3/1/18         |
|          | <b>Corpus Christi Lex</b> | <b>6/17/16</b> |                 |          | San Jose Tech         | 2/17/18        | 2/16/19         |             | Dayton                      | 5/26/17         | 5/25/18        |
|          | <b>Dayton</b>             | <b>6/17/16</b> | <b>12/31/18</b> |          | Tallahassee CLC       | 2/16/18        | 2/15/19         |             | <b>Dearborn THF</b>         | <b>2/17/17</b>  | <b>8/25/18</b> |
|          | Dearborn THF              | 5/26/17        | 5/28/18         |          | Tijuana               | 3/1/18         | 2/28/19         |             | <b>Des Moines</b>           | <b>2/24/17</b>  | <b>8/23/18</b> |
|          | Erie                      | 10/1/17        | 10/31/18        |          | Vancouver TWS         | 3/17/18        | 3/16/19         |             | Edmonton TWS                | 3/25/17         | 3/24/18        |
|          | Hampton VASC              | 11/10/17       | 11/9/18         |          | Victoria DCI          | 3/9/18         | 3/8/19          |             | Fort Lauderdale             | 2/17/17         | 2/17/19        |
|          | Hastings                  | 6/8/17         | 6/7/18          |          | Kuwait SCK            | 2/11/18        | 8/11/18         |             | Fort Worth                  | 2/17/17         | 6/30/18        |
|          | Hutchinson                | 5/29/17        | 11/30/18        |          | London BFI Ode        | 9/1/17         | 8/30/18         |             | Galveston                   | 9/2/17          | 8/25/18        |
|          | Jersey City               | 12/9/17        | 5/14/18         |          | Melbourne MV          | 7/11/16        |                 |             | Garden City                 | 12/1/17         | 11/30/18       |
|          | Memphis Pink              | 5/7/16         | 6/22/18         | Animalop | Saint Augustine       | 8/19/17        | 8/18/18         |             | Grand Rapids Cel            | 7/15/17         | 7/14/18        |
| AirRacer | <b>Pensacola NAM</b>      | <b>5/26/17</b> | <b>6/30/19</b>  |          | Pittsburgh CSC        | 11/17/17       | 3/31/18         | FON         | <b>Guayaquil</b>            | <b>4/16/18</b>  | <b>4/15/19</b> |
|          | Salt Lake City Clark      | 6/15/17        | 6/7/18          | AOTE     | <b>Stockholm</b>      | <b>10/1/17</b> | <b>10/1/19</b>  |             | Hampton VASC                | 2/17/17         | 2/17/19        |
|          | San Diego MV AMC          | 11/10/17       | 11/9/18         |          | Orlando SC            | 11/1/17        | 10/31/18        |             | Harrisburg                  | 2/18/17         | 2/18/19        |
|          | <b>Washington NASM</b>    | <b>5/26/17</b> | <b>5/25/19</b>  | AsterME  | Phoenix ASC           | 12/26/17       | 12/31/18        |             | Hastings                    | 10/19/17        | 10/18/18       |
|          | <b>Hutchinson</b>         | <b>1/19/18</b> | <b>1/31/19</b>  |          | Portland OMSI ET      | 1/26/18        | 1/31/19         |             | Houston MNS                 | 2/17/17         | 12/31/19       |
|          | Chandigarh                | 9/5/14         | 3/5/18          | BackWild | Athens Eug            | 3/30/17        | 9/30/18         |             | <b>Huntsville USSRC</b>     | <b>2/17/17</b>  | <b>8/28/18</b> |
|          | Shijiazhuang HST          | 1/1/17         | 1/1/19          |          | Columbus COSI         | 6/1/17         | 5/1/18          |             | Kansas City Sci             | 5/26/17         | 5/25/18        |
|          | Beijing 3D CSTM           | 2/6/18         | 2/15/19         | Bugs     | Garden City           | 5/19/17        | 6/18/18         |             | Kuwait SCK                  | 6/25/17         | 3/31/18        |
|          | Boston MOS                | 4/14/07        | 6/30/18         |          | Atlanta FMNH          | 3/23/18        | 9/30/18         |             | Leon Exp                    | 12/1/17         | 5/31/18        |
|          | Boston NEA                | 4/24/17        | 4/23/18         | ConqOTS  | Birmingham AL         | 3/23/18        | 9/30/18         |             | London SM                   | 9/4/17          | 8/31/19        |
| Alaska   | Charlotte DP              | 5/1/17         | 4/30/18         |          | Chattanooga TA        | 3/16/18        | 3/15/19         |             | <b>Louisville KSC</b>       | <b>2/17/17</b>  | <b>9/1/18</b>  |
|          | Chattanooga TA            | 5/26/17        | 5/25/18         | CRA      | <b>Columbus COSI</b>  | <b>5/24/18</b> | <b>11/24/18</b> |             | Lubbock SS                  | 2/2/18          | 2/1/19         |
|          | Chicago MSI               | 5/26/17        | 5/25/18         |          | <b>Louisville KSC</b> | <b>3/23/18</b> | <b>3/22/19</b>  | Everest     | Memphis Pink                | 2/10/18         | 3/2/19         |
|          | Cleveland                 | 1/9/18         | 6/30/18         | D-Day    | Norwalk MA            | 3/24/18        | 9/30/18         |             | Mexico City Pap             | 3/15/17         | 3/14/18        |
|          | Columbus COSI             | 1/10/18        | 5/23/18         |          | Calgary TS            | 9/28/15        | 9/28/18         |             | Milwaukee                   | 7/10/17         | 7/9/18         |
|          | Copenhagen TBP            | 10/12/17       | 3/1/18          | DinoAliv | Columbus COSI         | 9/15/14        | 6/30/18         |             | Mobile                      | 9/23/17         | 9/22/18        |
|          | Daqing STM                | 2/16/18        | 2/15/19         |          | Davenport Put         | 10/1/12        | 4/28/18         |             | Monterrey Pap               | 2/2/18          | 2/1/19         |
|          | Edmonton TWS              | 1/19/18        | 1/18/19         | Dolphins | Lodz CC               | 8/24/15        | 8/24/18         |             | Moscow Kin                  | 9/10/17         | 12/31/18       |
|          | Fort Lauderdale           | 4/28/17        | 4/27/18         |          | London SM             | 10/22/16       | 7/31/18         |             | Norwalk MA                  | 2/17/17         | 6/22/18        |
|          | Gatineau                  | 12/16/17       | 12/15/18        | DreamBig | San Diego RHF         | 7/1/14         | 6/30/18         |             | Orlando SC                  | 2/17/17         | 8/16/18        |
|          | <b>Guayaquil</b>          | <b>4/16/18</b> | <b>2/28/19</b>  |          | Vancouver TWS         | 3/11/06        | 6/30/18         |             | Parker                      | 12/2/17         | 6/1/18         |
|          | Hampton VASC              | 3/31/18        | 3/30/19         | Amazon   | <b>Austin TSHM</b>    | <b>3/1/18</b>  | <b>2/28/19</b>  |             | Pensacola NAM               | 3/1/17          | 6/30/18        |
| AmazAdve | Hastings                  | 2/8/17         | 8/12/18         |          | Denver MNS            | 9/1/17         | 8/30/18         |             | Philadelphia FI             | 3/1/18          | 2/28/19        |
|          | Hong Kong SM              | 3/1/18         | 8/31/18         | DSC      | Kurashiki             | 7/15/17        | 4/8/18          |             | Pittsburgh CSC              | 11/17/17        | 12/31/18       |
|          | Houston MNS               | 4/21/17        | 12/31/18        |          | Phoenix ASC           | 11/3/17        | 3/31/18         | Earthflight | Portland OMSI ET            | 2/17/17         | 3/1/18         |
|          | Indianapolis Imx          | 9/8/17         | 6/7/18          | DSC      | Salt Lake City Clark  | 4/6/18         | 4/5/19          |             | <b>Raleigh</b>              | <b>2/17/17</b>  | <b>8/16/18</b> |
|          | Los Angeles CSC           | 10/11/17       | 10/10/18        |          | Garden City           | 11/1/17        | 12/31/18        |             | <b>Regina</b>               | <b>2/17/17</b>  | <b>5/4/18</b>  |
|          | Lubbock SS                | 6/2/17         | 5/30/18         | DSC      | Hartberg              | 3/25/15        | 12/31/18        |             | Richmond SMV                | 2/18/17         | 3/1/18         |
|          | Melbourne MV              | 9/15/17        | 9/13/18         |          | <b>Nanchang JTSC</b>  |                | <b>6/30/18</b>  |             | Saint Louis SC              | 2/17/17         | 5/31/18        |
|          | Mexico City Pap           | 11/17/17       | 11/16/18        | DSC      | Toronto OSC           | 2/24/18        | 2/23/19         |             | Saint Paul SMM              | 3/2/18          | 12/31/18       |
|          | Milwaukee                 | 10/1/17        | 6/30/18         |          | <b>Columbus COSI</b>  | <b>3/9/18</b>  | <b>3/9/19</b>   |             | <b>Salt Lake City Clark</b> | <b>9/1/17</b>   | <b>8/24/18</b> |
|          | Montreal SC               | 10/6/17        | 3/30/18         | DSC      | Columbus GA NIM       | 1/31/18        | 1/31/19         |             | San Diego RHF               | 3/10/17         | 4/1/19         |
|          | New York AMNH             | 3/9/18         | 9/14/18         |          | Davenport Put         | 9/10/17        | 9/10/18         | ExtrWeat    | <b>San Jose Tech</b>        | <b>2/17/17</b>  | <b>8/24/18</b> |
| AMJ      | Norwalk MA                | 7/1/17         | 6/30/18         | DSC      | <b>Dayton</b>         | <b>5/26/17</b> | <b>12/31/18</b> |             | <b>Seattle PSC 2</b>        | <b>2/17/17</b>  | <b>2/16/19</b> |
|          | Orlando SC                | 2/24/18        | 2/23/19         |          | <b>Dearborn THF</b>   | <b>2/27/17</b> | <b>2/28/19</b>  |             | Shanghai 3D STM             | 9/19/17         | 9/18/18        |
|          | Peoria RM                 | 3/31/18        | 9/30/18         | DSC      | Des Moines            | 12/9/16        | 6/30/18         |             | Sioux Falls                 | 6/2/17          | 6/2/18         |
|          | Pittsburgh CSC            | 11/17/17       | 6/30/18         |          | <b>Edmonton TWS</b>   | <b>3/1/18</b>  | <b>12/31/18</b> | FightPil    | Stockholm                   | 3/15/18         | 3/15/19        |
|          | Portland OMSI ET          | 2/16/18        | 2/15/19         | DSC      | <b>Gatineau</b>       | <b>9/1/15</b>  | <b>3/31/19</b>  |             | Sudbury                     | 2/17/17         | 6/30/19        |
|          | Regina                    | 2/16/18        | 2/15/19         |          | Hague                 | 7/1/17         | 6/30/18         |             | Tallahassee CLC             | 2/17/17         | 3/1/18         |
|          | <b>Richmond SMV</b>       | <b>5/1/18</b>  | <b>5/1/19</b>   | DSC      | Hastings              | 5/15/15        | 12/31/18        |             | Thessaloniki                | 10/28/17        | 10/27/18       |
|          | <b>Sacramento Imx</b>     | <b>9/8/17</b>  | <b>6/30/18</b>  |          | Hutchinson            | 12/31/17       | 1/31/20         |             | Toronto OSC                 | 2/17/17         | 8/16/18        |
|          | Sacramento Imx            | 9/8/17         | 3/7/18          | DSC      | Peoria RM             | 4/2/15         | 10/31/18        |             | Vancouver TWS               | 3/4/17          | 3/16/18        |
|          | Saint Augustine           | 4/28/17        | 4/30/18         |          | Portland OMSI ET      | 11/10/14       | 3/1/18          |             | Victoria DCI                | 3/17/17         | 3/16/18        |
|          | Saint Louis SC            | 9/22/17        | 4/21/18         | DSC      | Raleigh               | 5/23/14        | 2/1/19          |             | Washington NASM             | 2/17/17         | 2/16/20        |
|          | Salt Lake City Clark      | 4/15/17        | 6/8/18          |          | Seattle PSC 2         | 3/29/14        | 6/30/19         |             | Victoria DCI                | 2/3/17          | 3/2/18         |
|          | San Jose Tech             | 5/6/17         | 4/30/18         | DSC      | Sudbury               | 5/30/16        | 6/30/18         |             | New York AMNH               | 9/15/17         | 3/8/18         |
| Amazon   | Seattle PSC 2             | 11/10/17       |                 |          | <b>Victoria DCI</b>   | <b>7/1/17</b>  | <b>7/1/18</b>   |             | Hartberg                    |                 | 12/31/18       |
|          | Sioux Falls               | 12/2/17        | 5/31/18         | DSC      | Washington NASM       | 5/23/17        | 5/22/19         |             | Columbus COSI               | 9/1/17          | 9/1/18         |
|          | Sudbury                   | 10/6/17        | 10/5/18         |          | Harrisburg            | 1/1/16         | 12/31/18        | FOTB        | Denver MNS                  | 1/13/17         |                |
|          | Tallahassee CLC           | 4/28/17        | 10/27/18        | DSC      | Davenport Put         | 2/1/15         | 6/30/18         |             | Detroit MSC                 | 5/22/17         | 5/21/18        |
|          | Toronto OSC               | 10/6/17        | 9/30/18         |          | Des Moines            | 9/1/17         | 8/30/18         |             | Edmonton TWS                | 6/2/17          | 6/1/18         |
|          | Vancouver TWS             | 12/22/17       | 12/21/18        | DSC      | Houston MNS           | 7/1/17         | 6/30/19         |             | Erie                        | 3/1/15          | 3/14/18        |
|          | Victoria DCI              | 4/14/17        | 6/30/18         |          | Portland OMSI ET      | 1/26/18        | 1/31/19         |             | Kuwait SCK                  | 11/1/17         | 4/30/18        |
|          | Virginia Beach AMSC       | 5/27/17        | 6/30/18         | DSC      | Stockholm             | 6/1/17         | 6/1/18          |             | Memphis Pink                | 3/24/17         | 5/28/18        |
|          | Hartberg                  | 3/25/15        | 12/31/18        |          | Fort Worth            | 5/28/16        | 6/30/18         |             | Sacramento Imx              | 2/24/17         |                |
|          | Cleveland                 | 3/23/18        | 3/22/19         | DSC      | <b>Lucerne</b>        | <b>5/1/18</b>  | <b>5/31/18</b>  |             | Tallahassee CLC             | 5/19/17         | 5/1/18         |
|          | <b>Columbus COSI</b>      | <b>5/25/18</b> | <b>5/24/19</b>  |          | Rochester MSC         | 12/1/17        | 12/31/18        | FON         | <b>Chantilly</b>            | <b>12/10/04</b> |                |
|          | Dearborn THF              | 2/16/18        | 2/15/19         | DSC      | Speyer Dome           | 6/1/00         | 6/30/18         |             | <b>Corpus Christi Lex</b>   | <b>5/12/12</b>  |                |
|          | Denver MNS                | 2/16/18        | 2/15/19         |          | Austin TSHM           | 10/1/17        | 8/31/18         |             | <b>Dayton</b>               | <b>3/1/13</b>   |                |
|          | Fort Worth                | 2/16/18        | 2/15/19         | DSC      | Baltimore MSC         | 2/17/17        | 6/30/19         |             | <b>Huntsville USSRC</b>     | <b>7/1/13</b>   |                |
|          | Galveston                 | 3/1/18         | 2/18/19         |          | Baton Rouge LASM      | 6/30/17        | 6/29/18         |             | <b>McMinnville</b>          | <b>3/23/12</b>  |                |
|          | Hutchinson                | 2/23/18        | 8/22/18         | DSC      | Birmingham AL         | 2/17/17        | 3/22/18         |             | Columbus COSI               | 8/1/14          | 3/30/18        |
|          | Mexico City Pap           | 3/15/18        | 3/14/19         |          | Boston MOS            | 10/6/17        | 10/5/18         |             | Davenport Put               | 5/18/16         | 5/17/18        |
|          | Monterrey Pap             | 3/15/18        | 9/15/18         | DSC      | Bradford              | 1/1/18         | 12/31/19        |             | Louisville KSC              | 6/18/15         | 7/2/18         |
|          | <b>Montreal SC</b>        | <b>5/18/18</b> | <b>5/17/19</b>  |          | Chantilly             | 2/17/17        | 2/16/20         |             | Apple Valley Imx            | 6/5/15          | 5/31/18        |
|          | <b>Moscow Kin</b>         | <b>4/15/18</b> | <b>4/14/19</b>  | DSC      | Charlotte DP          | 8/26/17        | 9/1/18          |             | Austin TSHM                 | 10/1/16         | 12/31/18       |
|          | Paris Geo                 | 3/7/18         | 3/6/19          |          | Chicago MSI           | 2/17/17        | 3/15/18         |             | Columbus COSI               | 9/1/14          | 6/30/18        |
|          | Peoria RM                 | 2/16/18        | 2/15/19         | DSC      | <b>Cleveland</b>      | <b>3/17/17</b> | <b>2/18/19</b>  |             | Davenport Put               | 2/15/13         | 6/30/18        |

| Film                | Theater              | Open           | Close                | Film                   | Theater                  | Open                 | Close                          | Film                    | Theater                 | Open            | Close         |
|---------------------|----------------------|----------------|----------------------|------------------------|--------------------------|----------------------|--------------------------------|-------------------------|-------------------------|-----------------|---------------|
| G3DNW               | Dearborn THF         | 2/8/17         | 12/31/18             | Jerusalem              | Lehi                     | 9/29/17              | 9/30/18                        | Ocean Oasis             | Chongqing STM           | 3/9/17          | 3/8/18        |
|                     | Edmonton TWS         | 12/26/13       | 6/30/18              |                        | Montreal SC              | 6/23/17              | 6/30/18                        |                         | Cleveland               | 7/1/17          | 6/30/18       |
|                     | Fort Worth           | 1/1/18         | 6/30/18              |                        | San Diego NHM            | 9/1/17               | 8/31/18                        |                         | <b>Columbus COSI</b>    | <b>3/8/18</b>   | <b>3/8/19</b> |
|                     | Gatineau             | 10/5/12        | 6/30/18              |                        | Sioux Falls              | 12/22/16             | 6/30/18                        |                         | Columbus GA NIM         | 4/1/16          | 3/31/18       |
|                     | Harrisburg           | 2/2/14         | 6/30/18              |                        | Chattanooga TA           | 3/27/15              | 3/27/18                        |                         | Dagging STM             | 1/1/18          | 12/31/18      |
|                     | <b>Hastings</b>      | <b>3/17/13</b> | <b>6/30/19</b>       |                        | Louisville KSC           | 1/20/14              | 7/2/18                         |                         | Edmonton TWS            | 2/12/16         | 6/20/18       |
|                     | Louisville KSC       | 9/30/12        | 6/30/18              |                        | Hague                    | 7/4/17               | 7/4/18                         |                         | Fort Worth              | 2/12/16         | 6/30/18       |
|                     | Peoria RM            | 4/1/16         | 6/30/18              |                        | Saint Paul SMM           | 1/1/18               | 3/1/18                         |                         | <b>Grand Canyon DCI</b> | <b>3/16/18</b>  | <b>3/8/19</b> |
|                     | Phoenix ASC          | 10/7/16        | 8/18/18              |                        | Al Khobar                | 9/5/16               | 3/5/18                         |                         | Guangzhou GSC           | 7/27/17         | 7/26/18       |
|                     | Port of Spain        | 10/6/17        | 10/5/18              |                        | <b>Chattanooga TA</b>    | <b>1/31/18</b>       | <b>1/31/19</b>                 |                         | Hague                   | 2/16/16         | 12/31/18      |
|                     | Portland OMSI ET     | 1/7/14         | 6/30/18              |                        | Orlando SC               | 7/1/17               | 6/30/18                        |                         | Hampton VASC            | 4/29/16         | 4/29/19       |
|                     | Raleigh              | 10/19/17       | 6/30/18              | JMCSO                  | <b>Philadelphia FI</b>   | <b>6/16/17</b>       | <b>7/3/18</b>                  | Harrisburg              | 7/1/16                  | 6/30/18         |               |
|                     | Richmond SMV         | 5/1/13         | 6/30/18              |                        | <b>Port of Spain</b>     | <b>2/7/17</b>        | <b>2/28/19</b>                 | <b>Indianapolis Imx</b> | <b>2/12/16</b>          | <b>12/31/18</b> |               |
|                     | Sacramento Imx       | 8/13/13        | 6/30/18              |                        | <b>Portland OMSI ET</b>  | <b>3/1/17</b>        | <b>2/28/19</b>                 | <b>Jersey City</b>      | <b>2/12/16</b>          | <b>6/24/19</b>  |               |
|                     | Saint Augustine      | 1/18/13        | 12/31/18             |                        | Sudbury                  | 3/11/17              | 6/30/18                        | Keelung NMMST           | 7/1/17                  | 6/30/18         |               |
|                     | Salt Lake City Clark | 2/8/13         | 6/30/18              |                        | <b>Valencia Spn</b>      | <b>4/1/17</b>        | <b>9/30/18</b>                 | <b>Kuwait SCK</b>       | <b>11/1/17</b>          | <b>5/16/18</b>  |               |
|                     | San Diego RHF        | 10/12/12       | 6/30/18              |                        | Edmonton TWS             | 12/26/13             | 6/30/18                        | Lehi                    | 3/24/17                 | 3/2/18          |               |
|                     | Seattle PSC 2        |                | 6/30/18              |                        | Port of Spain            | 10/6/17              | 10/5/18                        | Lucerne                 | 3/17/16                 | 4/30/18         |               |
|                     | Tallahassee CLC      | 1/18/13        | 6/30/18              |                        | Athens Eug               | 11/29/17             | 12/31/18                       | Memphis Pink            | 3/5/16                  | 5/31/18         |               |
|                     | Victoria DCI         | 4/5/13         | 6/30/18              |                        | Chattanooga TA           | 5/26/17              | 5/31/18                        | <b>Mexicali</b>         | <b>4/22/18</b>          | <b>10/22/18</b> |               |
|                     | Albuquerque NMMNH    | 3/18/17        | 3/17/18              |                        | <b>Columbus GA NIM</b>   | <b>12/4/15</b>       | <b>4/30/19</b>                 | <b>Mobile</b>           | <b>5/26/18</b>          | <b>5/25/19</b>  |               |
|                     | Berlin CS            | 4/20/14        | 10/19/18             | JTM                    | <b>Dayton</b>            | <b>3/6/15</b>        | <b>12/31/18</b>                | Moscow Kin              | 9/17/16                 | 12/31/18        |               |
|                     | Boston NEA           | 2/15/16        | 3/31/18              |                        | <b>Garden City</b>       | <b>7/11/16</b>       | <b>6/30/18</b>                 | Mumbai NSC              | 8/4/17                  | 6/30/18         |               |
|                     | Davenport Put        | 10/17/14       | 10/20/18             |                        | Hampton VASC             | 2/21/15              | 2/20/19                        | Nanjing YSTC            | 8/25/17                 | 8/24/18         |               |
|                     | Hastings             | 2/10/15        | 6/10/18              |                        | Huntsville USSRC         | 2/13/15              | 3/21/18                        | Nuremberg               | 3/10/16                 | 6/30/18         |               |
|                     | Houston MNS          | 2/15/14        | 5/31/18              |                        | Hutchinson               | 2/20/15              | 7/2/18                         | Orlando SC              | 2/12/16                 | 11/17/18        |               |
|                     | Katowice CC          | 6/18/14        | 9/19/18              |                        | <b>KSC 1</b>             | <b>2/27/15</b>       |                                | Paris Geo               | 4/3/17                  | 4/8/18          |               |
|                     | Krakow CC            | 6/18/14        | 9/19/18              |                        | <b>Los Angeles CSC</b>   | <b>10/29/15</b>      | <b>9/3/18</b>                  | Pittsburgh CSC          | 2/12/16                 | 12/31/18        |               |
|                     | Lodz CC              | 6/18/14        | 9/19/18              |                        | Louisville KSC           | 4/3/15               | 6/30/18                        | Portland OMSI ET        | 2/12/16                 | 6/30/18         |               |
|                     | Louisville KSC       | 6/18/15        | 6/30/18              |                        | Memphis Pink             | 1/9/16               | 5/29/18                        | Raleigh                 | 2/27/16                 | 6/30/18         |               |
|                     | Melbourne MV         | 4/11/16        | 4/10/18              |                        | <b>Portland OMSI ET</b>  | <b>3/20/15</b>       | <b>3/21/19</b>                 | Richmond SMV            | 4/10/16                 | 4/30/18         |               |
|                     | Mobile               | 1/18/18        | 5/18/18              |                        | Raleigh                  | 6/16/17              | 6/15/18                        | Saint Louis SC          | 2/12/16                 | 3/31/18         |               |
| Moscow Kin          | 10/6/14              | 8/31/18        | Salt Lake City Clark |                        | 5/15/15                  | 5/31/18              | San Jose Tech                  | 2/12/16                 | 7/31/18                 |                 |               |
| Orlando SC          | 7/5/14               | 1/4/19         | <b>San Jose Tech</b> |                        | <b>4/30/16</b>           | <b>6/30/18</b>       | Sinsheim                       | 3/4/16                  | 6/30/18                 |                 |               |
| Philadelphia FI     | 9/6/16               | 12/31/18       | Valencia Spn         | 8/1/17                 | 5/1/18                   | <b>Sudbury</b>       | <b>2/12/16</b>                 | <b>3/30/19</b>          |                         |                 |               |
| Poznan CC           | 6/18/14              | 9/19/18        | JTTSP                | <b>Washington NASM</b> | <b>3/6/15</b>            |                      | Valencia Spn                   | 10/7/16                 | 9/30/18                 |                 |               |
| Prague CC           | 5/22/14              | 9/19/18        |                      | Birmingham AL          | 6/1/17                   | 4/15/18              | Vancouver TWS                  | 2/12/16                 | 6/30/18                 |                 |               |
| Victoria DCI        | 9/4/15               | 6/30/18        |                      | <b>Columbus COSI</b>   | <b>11/26/16</b>          | <b>3/8/19</b>        | <b>Yellowstone</b>             | <b>5/1/16</b>           | <b>2/11/19</b>          |                 |               |
| Virginia Beach AMSC | 5/28/16              | 5/29/18        |                      | <b>Copenhagen TBP</b>  | <b>6/15/17</b>           | <b>12/16/18</b>      | Tijuana                        | 10/15/17                | 3/15/18                 |                 |               |
| Warsaw CC           | 6/18/14              | 9/19/18        |                      | Louisville KSC         | 6/30/17                  | 6/29/18              | Branson                        | 9/93                    | 12/18                   |                 |               |
| Wroclaw CC          | 10/4/17              | 9/19/18        |                      | Monterrey Pap          | 6/10/16                  | 3/1/18               | Al Khobar                      | 6/21/17                 | 6/20/18                 |                 |               |
| Grand Canyon DCI    | 11/1/99              | 12/18          |                      | Phoenix ASC            | 6/16/17                  | 6/15/18              | Bogota Mal                     | 6/17/17                 | 6/16/18                 |                 |               |
| Harrisburg          | 11/1/14              | 6/30/18        |                      | Saint Louis SC         | 1/12/18                  | 5/31/18              | Milwaukee                      | 10/23/17                | 6/20/19                 |                 |               |
| Richmond SMV        | 6/1/16               | 7/31/19        |                      | Saint Paul SMM         | 5/5/17                   | 6/1/18               | PTJH<br>Pulse<br>Rescue<br>RME | Cathedral City          | 5/1/17                  | 4/30/18         |               |
| Charlotte DP        | 11/1/17              | 11/1/19        |                      | Speyer Dome            | 5/25/17                  | 5/24/18              |                                | Vancouver TWS           | 7/1/17                  | 6/30/18         |               |
| Des Moines          | 10/1/16              | 10/1/18        |                      | Stockholm              |                          | 6/30/18              |                                | McMinnville             | 6/1/12                  |                 |               |
| Edmonton TWS        | 10/1/16              | 10/1/18        |                      | Kenya                  | Hutchinson               | 5/30/15              |                                | 6/30/19                 | Columbus COSI           | 7/10/07         | 6/30/18       |
| Mobile              | 10/18/17             | 10/1/18        |                      |                        | Orlando SC               | 9/1/17               |                                | 8/31/18                 | Dearborn THF            |                 | 9/1/18        |
| Vancouver TWS       | 10/1/16              | 10/1/18        | Baton Rouge LASM     |                        | 11/3/15                  | 11/2/18              |                                | Lucerne                 |                         | 9/1/18          |               |
| Beijing Dome CSTM   | 1/15/18              | 1/14/19        | Davenport Put        |                        | 7/1/15                   | 6/30/18              |                                | Quebec Cpx              | 7/14/17                 | 7/14/18         |               |
| Lucknow             | 12/1/17              | 11/30/18       | Hutchinson           |                        | 5/1/15                   | 6/18                 |                                | Saint Paul SMM          | 10/13/17                | 3/1/18          |               |
| Saint Augustine     | 1/1/15               | 12/31/18       | Hartberg             |                        | 10/1/13                  | 12/31/18             |                                | Seattle PSC 2           |                         | 9/1/18          |               |
| Saint Augustine     | 2/1/15               | 12/31/18       | <b>McMinnville</b>   |                        | <b>3/23/12</b>           |                      |                                | Toronto OSC             |                         | 9/1/18          |               |
| Atlantic City       | 5/25/17              | 5/31/18        | MA                   |                        | Atlanta FMNH             | 2/9/18               |                                | 2/8/19                  | Vancouver TWS           |                 | 9/1/18        |
| Boston NEA          | 5/31/13              | 4/30/18        |                      |                        | <b>Chattanooga TA</b>    | <b>12/29/17</b>      | <b>5/24/18</b>                 | Victoria DCI            |                         | 9/1/18          |               |
| Galveston           | 6/28/14              | 5/1/18         |                      |                        | <b>Columbus COSI</b>     | <b>3/7/18</b>        | <b>5/23/18</b>                 | Guayaquil               | 4/1/17                  | 3/31/18         |               |
| Gatineau            | 10/7/16              | 6/30/18        |                      |                        | Guangzhou GSC            | 12/1/17              | 11/30/18                       | Hampton VASC            | 6/20/15                 | 6/19/18         |               |
| Hutchinson          | 7/1/17               | 12/31/18       |                      | Hangzhou LCSTM         | 12/1/17                  | 11/30/18             | Pensacola NAM                  | 4/15/17                 |                         |                 |               |
| Omaha Zoo           | 6/1/17               | 5/31/18        |                      | <b>Melbourne MV</b>    | <b>1/30/17</b>           | <b>1/28/19</b>       | Philadelphia FI                | 10/1/16                 |                         |                 |               |
| Portland OMSI ET    | 1/26/18              | 1/31/19        |                      | Shanghai 3D STM        | 12/1/17                  | 11/30/18             | Singapore SC                   | 5/1/17                  | 4/30/18                 |                 |               |
| Regina              | 6/1/17               | 5/31/18        |                      | Tallahassee CLC        | 7/14/17                  | 7/13/18              | Victoria DCI                   | 2/3/17                  |                         |                 |               |
| Sacramento Imx      | 2/20/15              | 6/30/19        |                      | Tokyo TSC              | 3/18/17                  | 3/17/18              | Erie                           | 3/1/18                  | 3/31/18                 |                 |               |
| San Jose Tech       | 10/1/17              | 10/31/18       |                      | Victoria DCI           | 11/24/17                 | 5/23/18              | Saint Augustine                | 10/3/15                 | 12/31/18                |                 |               |
| San Simeon DCI      | 8/17/96              |                |                      | Columbus COSI          | 4/1/17                   | 3/31/18              | Davenport Put                  | 4/27/16                 | 4/26/18                 |                 |               |
| Davenport Put       | 10/1/17              | 10/31/18       | Gatineau             | 1/10/18                | 1/31/19                  | Copenhagen TBP       | 2/9/17                         | 2/9/19                  |                         |                 |               |
| <b>Glasgow</b>      |                      | <b>8/28/18</b> | Jersey City          | 11/1/17                | 5/30/18                  | Dongguan STM         | 1/1/18                         | 12/31/18                |                         |                 |               |
| New Orleans         | 9/15/15              | 12/31/18       | Lubbock SS           | 10/1/17                | 10/31/18                 | Melbourne MV         | 3/16/17                        | 3/22/18                 |                         |                 |               |
| Vancouver TWS       | 7/1/16               | 6/30/18        | Peoria RM            | 6/1/17                 | 5/31/18                  | Paris Geo            | 1/30/18                        | 1/29/19                 |                         |                 |               |
| Albuquerque NMMNH   | 12/1/17              | 11/30/18       | Philadelphia FI      | 9/30/17                | 9/30/18                  | Salt Lake City Clark | 2/16/18                        | 2/15/19                 |                         |                 |               |
| Lucerne             | 10/6/16              | 4/6/18         | Seattle PSC 2        | 3/10/17                | 3/31/18                  | Seattle PSC 2        | 9/5/17                         | 9/4/18                  |                         |                 |               |
| Memphis Pink        | 3/7/15               | 5/28/18        | Sioux Falls          | 1/25/18                | 1/31/19                  | Taichung NMNS        | 7/1/17                         | 6/30/18                 |                         |                 |               |
| Milwaukee           | 2/1/18               | 1/30/19        | Sudbury              | 9/7/17                 | 9/30/18                  | Victoria DCI         | 9/22/17                        | 9/21/18                 |                         |                 |               |
| Nuremberg           |                      | 12/31/18       | Pensacola NAM        | 11/8/96                |                          | Baton Rouge LASM     | 1/1/18                         | 12/31/18                |                         |                 |               |
| Paris Geo           | 7/7/15               | 4/8/18         | Saint Paul SMM       | 1/1/18                 | 3/1/18                   | Calgary TS           | 1/1/17                         | 12/31/18                |                         |                 |               |
| Parker              | 1/27/18              | 7/27/18        | Speyer Dome          | 12/1/97                | 12/31/18                 | Hangzhou LCSTM       | 7/1/17                         | 6/30/18                 |                         |                 |               |
| Pittsburgh CSC      | 6/17/16              | 12/31/18       | Lucerne              | 3/1/18                 | 3/31/18                  | Huntsville USSRC     | 3/1/16                         | 5/3/18                  |                         |                 |               |
| Richmond SMV        | 3/14/15              | 7/31/19        | Columbus COSI        | 11/19/14               | 3/30/18                  | Hutchinson           | 9/8/17                         | 3/31/18                 |                         |                 |               |
| Bradford            | 9/17/17              | 4/20/18        | Gatineau             | 1/15/16                | 6/30/18                  | Lehi                 | 6/30/17                        | 6/30/18                 |                         |                 |               |
| Guayaquil           | 4/26/17              | 4/25/18        | Peoria RM            | 1/17/15                | 3/30/18                  | London SM            | 3/1/18                         | 2/28/19                 |                         |                 |               |
| Hampton VASC        | 6/15/17              | 6/14/18        | Baton Rouge LASM     | 3/1/17                 | 3/31/19                  | Davenport Put        | 5/3/13                         | 8/31/18                 |                         |                 |               |
| Houston MNS         | 1/8/18               | 10/31/18       | Davenport Put        | 2/1/15                 | 6/30/18                  | Hutchinson           | 10/31/14                       | 10/31/18                |                         |                 |               |
| Indianapolis Imx    | 2/9/18               | 2/8/19         | Kansas City Sci      | 6/20/17                | 6/20/18                  | Branson              | 7/19/17                        | 7/19/18                 |                         |                 |               |
| Kuwait SCK          | 4/19/18              | 10/18/18       | Melbourne MV         | 9/22/17                | 9/30/18                  | Davenport Put        | 7/1/14                         | 6/30/18                 |                         |                 |               |
| Los Angeles CSC     | 10/10/17             | 4/10/18        | Portland OMSI ET     | 1/26/18                | 1/31/19                  | Fort Worth           | 3/1/17                         | 1/1/19                  |                         |                 |               |
| Lucerne             | 3/16/17              | 6/15/18        | Sacramento Imx       | 1/1/17                 | 6/30/19                  | Louisville KSC       | 2/1/16                         | 6/30/18                 |                         |                 |               |
| McMinnville         | 3/1/17               | 8/31/18        | Vancouver TWS        | 7/1/17                 | 6/30/18                  | Portland OMSI ET     | 1/26/18                        | 1/31/19                 |                         |                 |               |
| Pensacola NAM       | 3/13/17              | 3/12/18        | Victoria DCI         | 2/2/18                 | 3/8/18                   | Atlanta FMNH         | 9/30/17                        | 9/30/18                 |                         |                 |               |
| Seattle PSC 2       | 1/1/18               | 3/31/18        | ND                   | New Delhi ICC          |                          | Bradford             | 9/1/16                         | 9/29/18                 |                         |                 |               |
| Victoria DCI        | 2/1/18               | 1/31/19        |                      | Niagara Can DCI        | 7/1/86                   |                      | Cleveland                      | 12/26/17                | 9/30/18                 |                 |               |
| Atlanta FMNH        | 9/30/17              | 9/30/18        |                      | Niagara NY DCI         | 5/1/07                   |                      | Columbus COSI                  | 10/11/17                | 10/31/18                |                 |               |
| Cleveland           | 4/14/17              | 4/30/18        |                      | NPA                    | Alamogordo               | 3/24/17              | 3/23/18                        | Harrisburg              | 2/1/18                  | 2/28/19         |               |
| Denver MNS          | 6/1/17               | 5/31/18        |                      |                        | <b>Albuquerque NMMNH</b> | <b>4/2/18</b>        | <b>4/1/19</b>                  | Houston MNS             | 1/12/15                 | 6/30/18         |               |
| Edmonton TWS        | 10/6/17              | 10/31/18       |                      |                        | Branson                  | 3/18/16              | 12/31/18                       | Kuwait SCK              | 9/1/17                  | 3/1/18          |               |
| Fort Lauderdale     | 9/29/17              | 9/29/18        |                      |                        | Carnival Vista           | 11/4/16              | 5/31/18                        | Las Palmas              | 5/30/16                 | 5/30/18         |               |
| Galveston           | 11/1/17              | 5/1/18         |                      |                        | <b>Carnival Vista</b>    | <b>4/1/18</b>        | <b>10/1/18</b>                 | Louisville KSC          | 9/21/17                 | 9/30/18         |               |
| Houston MNS         | 9/15/17              | 9/30/18        |                      |                        | Chandigarh               | 9/5/16               | 6/30/18                        | Melbourne MV            | 9/22/17                 | 9/30/18         |               |
| IncrPred            |                      |                |                      |                        |                          |                      |                                |                         |                         |                 |               |
|                     |                      |                |                      |                        |                          |                      |                                |                         |                         |                 |               |
|                     |                      |                |                      |                        |                          |                      |                                |                         |                         |                 |               |
|                     |                      |                |                      |                        |                          |                      |                                |                         |                         |                 |               |
|                     |                      |                |                      |                        |                          |                      |                                |                         |                         |                 |               |
|                     |                      |                |                      |                        |                          |                      |                                |                         |                         |                 |               |
|                     |                      |                |                      |                        |                          |                      |                                |                         |                         |                 |               |
|                     |                      |                |                      |                        |                          |                      |                                |                         |                         |                 |               |
|                     |                      |                |                      |                        |                          |                      |                                |                         |                         |                 |               |
|                     |                      |                |                      |                        |                          |                      |                                |                         |                         |                 |               |

| Film          | Theater                | Open          | Close           | Film              | Theater          | Open          | Close          | Film            | Theater          | Open    | Close    |
|---------------|------------------------|---------------|-----------------|-------------------|------------------|---------------|----------------|-----------------|------------------|---------|----------|
|               | Montreal SC            | 9/18/17       | 9/30/18         |                   | Vancouver TWS    | 7/1/17        | 6/30/18        |                 | Richmond SMV     | 2/1/17  |          |
|               | Pittsburgh CSC         | 11/15/17      | 11/30/18        | <b>TTA</b>        | <b>Glasgow</b>   | <b>4/1/15</b> | <b>4/10/19</b> |                 | Sioux Falls      | 8/1/17  | 8/30/18  |
|               | Poitiers Imax          | 4/1/16        | 4/30/19         |                   | Hague            | 10/10/17      | 4/19/18        | <b>WM</b>       | Tallahassee CLC  | 5/15/16 | 6/30/19  |
|               | Saint Félicien         | 5/1/16        | 4/30/18         |                   | Moscow Kin       | 11/1/16       | 12/31/18       | <b>WOTA</b>     | Kuwait SCK       | 9/1/17  | 8/31/18  |
|               | Sioux Falls            | 7/1/17        | 6/30/19         |                   | Prague CC        | 12/8/17       | 12/1/18        | <b>WWDPPP3D</b> | Vancouver TWS    | 7/1/17  | 6/30/18  |
|               | Sudbury                | 6/24/16       | 6/30/18         | <b>VanGogh</b>    | Tijuana          | 3/24/17       | 3/23/18        |                 | Edmonton TWS     | 5/1/15  | 5/31/18  |
|               | Tallahassee CLC        | 1/6/16        | 6/30/18         | <b>WATE</b>       | Katoomba         | 6/1/97        |                |                 | Erie             | 9/15/16 | 12/15/19 |
|               | Louisville KSC         | 2/1/16        | 6/30/18         | <b>Wild Ocean</b> | Davenport Put    | 2/1/15        | 6/30/18        |                 | Harrisburg       | 6/1/17  | 6/30/18  |
|               | Sacramento Imx         | 5/20/16       | 6/30/19         |                   | New Orleans      | 7/1/17        | 6/30/19        |                 | Melbourne MV     | 9/22/17 | 9/30/18  |
|               | Sioux Falls            | 7/1/17        | 6/30/19         |                   | Apple Valley Imx | 2/1/16        | 6/30/19        |                 | Memphis Pink     | 5/21/15 | 5/31/18  |
| <b>TO FLY</b> | Washington NASM        | 7/1/76        | 12/31/18        |                   | Davenport Put    | 8/20/17       | 9/30/18        |                 | Milwaukee        | 2/1/16  | 6/30/18  |
| <b>ToFly</b>  | Rochester MSC          | 7/1/16        | 6/30/18         |                   | Edmonton TWS     | 10/28/16      | 10/31/18       |                 | Orlando SC       | 4/1/17  | 3/31/18  |
|               | <b>Washington NASM</b> | <b>3/7/16</b> | <b>12/31/18</b> |                   | Houston MNS      | 6/1/16        | 6/30/19        |                 | Portland OMSI ET | 1/26/18 | 1/31/19  |
| <b>TOTIA</b>  | Atlanta FMNH           | 6/15/17       | 6/30/18         |                   | Lucerne          | 9/21/17       | 9/30/18        |                 | Tallahassee CLC  | 4/19/16 | 6/30/18  |
|               | Davenport Put          | 2/1/15        | 6/30/18         |                   | Melbourne MV     | 1/4/18        | 1/31/19        |                 | Valencia Spn     | 7/1/16  | 7/1/18   |
|               | Melbourne MV           | 9/22/17       | 9/30/18         |                   | Memphis Pink     | 1/7/17        | 5/25/18        |                 | Victoria DCI     | 5/1/17  | 4/30/18  |
|               | New Orleans            | 7/1/17        | 6/30/19         |                   | Peoria RM        | 8/10/17       | 8/30/18        |                 |                  |         |          |
|               | Saint Félicien         | 5/1/16        | 4/30/18         |                   | Portland OMSI ET | 1/26/18       | 1/31/19        |                 |                  |         |          |

## March-April 2018 by Theater

| Theater                  | Film            | Open            | Close          | Theater                   | Film            | Open            | Close           | Theater                 | Film            | Open           | Close          |
|--------------------------|-----------------|-----------------|----------------|---------------------------|-----------------|-----------------|-----------------|-------------------------|-----------------|----------------|----------------|
| <b>Al Khobar</b>         | JMCSO           | 9/5/16          | 3/5/18         |                           | AsterME         | 6/1/17          | 5/1/18          |                         | WildAfri        | 10/28/16       | 10/31/18       |
|                          | Penguins        | 6/21/17         | 6/20/18        |                           | <b>BackWild</b> | <b>5/24/18</b>  | <b>11/24/18</b> | <b>Erie</b>             | WWDPPP3D        | 5/1/15         | 5/31/18        |
| <b>Alamogordo</b>        | NPA             | 3/24/17         | 3/23/18        |                           | Bugs            | 9/15/14         | 6/30/18         |                         | ACGOTS          | 10/1/17        | 10/31/18       |
| <b>Albuquerque NMMNH</b> | G3DNW           | 3/18/17         | 3/17/18        |                           | <b>D-Day</b>    | <b>3/9/18</b>   | <b>3/9/19</b>   |                         | ExtrWeat        | 3/1/15         | 3/14/18        |
|                          | HumpbWha        | 12/1/17         | 11/30/18       |                           | ExtrWeat        | 9/1/17          | 9/1/18          |                         | ROTB            | 3/1/18         | 3/31/18        |
|                          | <b>NPA</b>      | <b>4/2/18</b>   | <b>4/1/19</b>  |                           | FON             | 8/1/14          | 3/30/18         |                         | WWDPPP3D        | 9/15/16        | 12/15/19       |
| <b>Apple Valley Imx</b>  | FOTB            | 6/5/15          | 5/31/18        |                           | FOTB            | 9/1/14          | 6/30/18         | <b>Fort Lauderdale</b>  | AmazAdve        | 4/28/17        | 4/27/18        |
|                          | WildAfri        | 2/1/16          | 6/30/19        |                           | <b>JTTSF</b>    | <b>11/26/16</b> | <b>3/8/19</b>   |                         | DreamBig        | 2/17/17        | 2/17/19        |
| <b>Athens Eug</b>        | AsterME         | 3/30/17         | 9/30/18        |                           | <b>MA</b>       | <b>3/7/18</b>   | <b>5/23/18</b>  |                         | IncrPred        | 9/29/17        | 9/29/18        |
|                          | JTS             | 11/29/17        | 12/31/18       |                           | MOC             | 4/1/17          | 3/31/18         | <b>Fort Worth</b>       | AMJ             | 2/16/18        | 2/15/19        |
| <b>Atlanta FMNH</b>      | BackWild        | 3/23/18         | 9/30/18        |                           | MOTUW           | 11/19/14        | 3/30/18         |                         | Dolphins        | 5/28/16        | 6/30/18        |
|                          | IncrPred        | 9/30/17         | 9/30/18        |                           | <b>NPA</b>      | <b>3/8/18</b>   | <b>3/8/19</b>   |                         | DreamBig        | 2/17/17        | 6/30/18        |
|                          | MA              | 2/9/18          | 2/8/19         |                           | RME             | 7/10/07         | 6/30/18         |                         | FOTB            | 1/1/18         | 6/30/18        |
|                          | TinyGian        | 9/30/17         | 9/30/18        | <b>Columbus GA NIM</b>    | TinyGian        | 10/11/17        | 10/31/18        |                         | NPA             | 2/12/16        | 6/30/18        |
|                          | TOTIA           | 6/15/17         | 6/30/18        |                           | ACGOTS          | 5/26/17         | 6/17/18         |                         | TA              | 3/1/17         | 1/1/19         |
| <b>Atlantic City</b>     | GWS             | 5/25/17         | 5/31/18        |                           | D-Day           | 1/31/18         | 1/31/19         | <b>Galveston</b>        | AMJ             | 3/1/18         | 2/18/19        |
| <b>Austin TSHM</b>       | <b>ConqOTS</b>  | <b>3/1/18</b>   | <b>2/28/19</b> |                           | <b>JTS</b>      | <b>12/4/15</b>  | <b>4/30/19</b>  |                         | DreamBig        | 9/2/17         | 8/25/18        |
|                          | DreamBig        | 10/1/17         | 8/31/18        |                           | NPA             | 4/1/16          | 3/31/18         |                         | GWS             | 6/28/14        | 5/1/18         |
|                          | FOTB            | 10/1/16         | 12/31/18       | <b>Copenhagen TBP</b>     | AmazAdve        | 10/12/17        | 3/1/18          |                         | IncrPred        | 11/1/17        | 5/1/18         |
| <b>Baltimore MSC</b>     | DreamBig        | 2/17/17         | 6/30/19        |                           | <b>JTTSF</b>    | <b>6/15/17</b>  | <b>12/16/18</b> | <b>Garden City</b>      | AsterME         | 5/19/17        | 6/18/18        |
| <b>Baton Rouge LASM</b>  | DreamBig        | 6/30/17         | 6/29/18        |                           | SFLIS           | 2/9/17          | 2/9/19          |                         | CRA             | 11/1/17        | 12/31/18       |
|                          | L&C             | 11/3/15         | 11/2/18        | <b>Corpus Christi Lex</b> | <b>ACGOTS</b>   | <b>6/17/16</b>  |                 |                         | DreamBig        | 12/1/17        | 11/30/18       |
|                          | Mummies         | 3/1/17          | 3/31/19        |                           | <b>FightPil</b> | <b>5/12/12</b>  |                 |                         | <b>JTS</b>      | <b>7/1/16</b>  | <b>6/30/18</b> |
|                          | SOG             | 1/1/18          | 12/31/18       | <b>Daqing STM</b>         | AmazAdve        | 2/16/18         | 2/15/19         | <b>Gatineau</b>         | AmazAdve        | 12/16/17       | 12/15/18       |
| <b>Beijing 3D CSTM</b>   | AmazAdve        | 2/6/18          | 2/15/19        |                           | NPA             | 1/1/18          | 12/31/18        |                         | <b>D-Day</b>    | <b>9/1/15</b>  | <b>3/31/19</b> |
| <b>Beijing Dome CSTM</b> | Greece          | 1/15/18         | 1/14/19        | <b>Davenport Put</b>      | Bugs            | 10/1/12         | 4/28/18         |                         | FOTB            | 10/5/12        | 6/30/18        |
| <b>Berlin CS</b>         | G3DNW           | 4/20/14         | 10/19/18       |                           | D-Day           | 9/10/17         | 9/10/18         |                         | GWS             | 10/7/16        | 6/30/18        |
| <b>Birmingham AL</b>     | BackWild        | 3/23/18         | 9/30/18        |                           | DinoAliv        | 2/1/15          | 6/30/18         |                         | MOC             | 1/10/18        | 1/31/19        |
|                          | DreamBig        | 2/17/17         | 3/22/18        |                           | DreamBig        | 2/24/17         | 3/1/18          |                         | MOTUW           | 1/15/16        | 6/30/18        |
|                          | JTTSF           | 6/1/17          | 4/15/18        |                           | FON             | 5/18/16         | 5/17/18         | <b>Glasgow</b>          | <b>HiDUniv</b>  |                | <b>8/28/18</b> |
| <b>Bogota Mal</b>        | Penguins        | 6/17/17         | 6/16/18        |                           | FOTB            | 2/15/13         | 6/30/18         |                         | <b>TTA</b>      | <b>4/1/15</b>  | <b>4/10/19</b> |
| <b>Boston MOS</b>        | AmazAdve        | 4/14/07         | 6/30/18        |                           | G3DNW           | 10/17/14        | 10/20/18        | <b>Grand Canyon DCI</b> | GC              | 11/1/99        | 12/18          |
|                          | DreamBig        | 10/6/17         | 10/5/18        |                           | HiDUniv         | 10/1/17         | 10/31/18        |                         | <b>NPA</b>      | <b>3/16/18</b> | <b>3/8/19</b>  |
| <b>Boston NEA</b>        | AmazAdve        | 4/24/17         | 4/23/18        |                           | LastReef        | 7/1/15          | 6/30/18         | <b>Grand Rapids Cel</b> | DreamBig        | 7/15/17        | 7/14/18        |
|                          | G3DNW           | 2/15/16         | 3/31/18        |                           | Mummies         | 2/1/15          | 6/30/18         | <b>Guangzhou GSC</b>    | MA              | 12/1/17        | 11/30/18       |
|                          | GWS             | 5/31/13         | 4/30/18        |                           | SeaMonst        | 4/27/16         | 4/26/18         |                         | NPA             | 7/26/17        | 7/26/18        |
| <b>Bradford</b>          | DreamBig        | 1/1/18          | 12/31/19       |                           | SpacJunk        | 5/3/13          | 8/31/18         | <b>Guayaquil</b>        | <b>AmazAdve</b> | <b>4/16/18</b> | <b>2/28/19</b> |
|                          | Hurrican        | 9/17/17         | 4/20/18        |                           | TA              | 7/1/14          | 6/30/18         |                         | <b>DreamBig</b> | <b>4/16/18</b> | <b>4/15/19</b> |
|                          | TinyGian        | 9/1/16          | 9/29/18        |                           | TOTIA           | 2/1/15          | 6/30/18         |                         | Hurrican        | 4/26/17        | 4/25/18        |
| <b>Branson</b>           | NPA             | 3/18/16         | 12/31/18       | <b>Dayton</b>             | Wild Ocean      | 2/1/15          | 6/30/18         |                         | RobotsNG        | 4/1/17         | 3/31/18        |
|                          | Ozarks          | 9/93            | 12/18          |                           | WildAfri        | 8/20/17         | 9/30/18         | <b>Hague</b>            | D-Day           | 7/1/17         | 6/30/18        |
| <b>Calgary TS</b>        | TA              | 7/19/17         | 7/19/18        |                           | <b>ACGOTS</b>   | <b>6/17/16</b>  | <b>12/31/18</b> |                         | JAC             | 7/4/17         | 7/4/18         |
|                          | Bugs            | 9/28/15         | 9/28/18        |                           | <b>D-Day</b>    | <b>5/26/17</b>  | <b>12/31/18</b> |                         | NPA             | 2/16/16        | 12/31/18       |
| <b>Carnival Vista</b>    | SpaceNex        | 1/1/17          | 12/31/18       |                           | DreamBig        | 5/26/17         | 5/25/18         |                         | TTA             | 10/10/17       | 4/19/18        |
|                          | NPA             | 11/4/16         | 5/31/18        |                           | <b>FightPil</b> | <b>3/1/15</b>   |                 | <b>Hampton VASC</b>     | ACGOTS          | 11/10/17       | 11/9/18        |
|                          | <b>NPA</b>      | <b>4/1/18</b>   | <b>10/1/18</b> |                           | <b>JTS</b>      | <b>3/6/15</b>   | <b>12/31/18</b> |                         | AmazAdve        | 3/31/18        | 3/30/19        |
| <b>Cathedral City</b>    | PTJH            | 5/1/17          | 4/30/18        | <b>Dearborn THF</b>       | ACGOTS          | 5/26/17         | 5/28/18         |                         | DreamBig        | 2/17/17        | 2/17/19        |
| <b>Chandigarh</b>        | AIWC            | 9/5/14          | 3/5/18         |                           | AMJ             | 2/16/18         | 2/15/19         |                         | Hurrican        | 6/15/17        | 6/14/18        |
|                          | NPA             | 9/5/16          | 6/30/18        |                           | <b>D-Day</b>    | <b>2/27/17</b>  | <b>2/28/19</b>  |                         | JTS             | 2/21/15        | 2/20/19        |
| <b>Chantilly</b>         | DreamBig        | 2/17/17         | 2/16/20        |                           | <b>DreamBig</b> | <b>2/17/17</b>  | <b>8/25/18</b>  |                         | NPA             | 4/29/16        | 4/29/19        |
|                          | <b>FightPil</b> | <b>12/10/04</b> |                |                           | FOTB            | 2/8/17          | 12/31/18        | <b>Hangzhou LCSTM</b>   | RobotsNG        | 6/20/15        | 6/19/18        |
| <b>Charlotte DP</b>      | AmazAdve        | 5/1/17          | 4/30/18        |                           | RME             |                 | 9/1/18          |                         | MA              | 12/1/17        | 11/30/18       |
|                          | DreamBig        | 8/26/17         | 9/1/18         | <b>Denver MNS</b>         | AMJ             | 2/16/18         | 2/15/19         |                         | SpaceNex        | 7/1/17         | 6/30/18        |
|                          | GlobSoun        | 11/1/17         | 11/1/19        |                           | ConqOTS         | 9/1/17          | 8/30/18         | <b>Harrisburg</b>       | DIA             | 1/1/16         | 12/31/18       |
| <b>Chattanooga TA</b>    | AmazAdve        | 5/26/17         | 5/25/18        |                           | ExtrWeat        | 1/13/17         |                 |                         | DreamBig        | 2/18/17        | 2/18/19        |
|                          | BackWild        | 3/16/18         | 3/15/19        |                           | IncrPred        | 6/1/17          | 5/31/18         |                         | FOTB            | 2/2/14         | 6/30/18        |
|                          | Jerusalem       | 3/27/15         | 3/27/18        | <b>Des Moines</b>         | D-Day           | 12/9/16         | 6/30/18         |                         | GCA             | 11/1/14        | 6/30/18        |
|                          | <b>JMCSO</b>    | <b>1/31/18</b>  | <b>1/31/19</b> |                           | DinoAliv        | 9/1/17          | 8/30/18         |                         | NPA             | 7/1/16         | 6/30/18        |
|                          | JTS             | 5/26/17         | 5/31/18        |                           | <b>DreamBig</b> | <b>2/24/17</b>  | <b>8/23/18</b>  |                         | TinyGian        | 2/1/18         | 2/28/19        |
|                          | <b>MA</b>       | <b>12/29/17</b> | <b>5/24/18</b> |                           | GlobSoun        | 10/1/16         | 10/1/18         |                         | WWDPPP3D        | 6/1/17         | 6/30/18        |
| <b>Chicago MSI</b>       | AmazAdve        | 5/26/17         | 5/25/18        | <b>Detroit MSC</b>        | ExtrWeat        | 5/22/17         | 5/21/18         |                         | Amazon          | 3/25/15        | 12/31/18       |
|                          | DreamBig        | 2/17/17         | 3/15/18        | <b>Dongguan STM</b>       | SFLIS           | 1/1/18          | 12/31/18        |                         | CRA             | 3/25/15        | 12/31/18       |
| <b>Chongqing STM</b>     | NPA             | 3/9/17          | 3/8/18         | <b>Edmonton TWS</b>       | AmazAdve        | 1/19/18         | 1/18/19         |                         | Everest         |                | 12/31/18       |
| <b>Cleveland</b>         | AmazAdve        | 1/9/18          | 6/30/18        |                           | <b>D-Day</b>    | <b>3/1/18</b>   | <b>12/31/18</b> |                         | LivingSe        | 10/1/13        | 12/31/18       |
|                          | AMJ             | 3/23/18         | 3/22/19        |                           | DreamBig        | 3/25/17         | 3/24/18         | <b>Hastings</b>         | ACGOTS          | 6/8/17         | 6/7/18         |
|                          | <b>DreamBig</b> | <b>3/17/17</b>  | <b>2/18/19</b> |                           | ExtrWeat        | 6/2/17          | 6/1/18          |                         | AmazAdve        | 2/8/17         | 8/12/18        |
|                          | IncrPred        | 4/14/17         | 4/30/18        |                           | FOTB            | 12/26/13        | 6/30/18         |                         | D-Day           | 5/15/15        | 12/31/18       |
|                          | NPA             | 7/1/17          | 6/30/18        |                           | GlobSoun        | 10/1/16         | 10/1/18         |                         | DreamBig        | 10/19/17       | 10/18/18       |
| <b>Columbus COSI</b>     | TinyGian        | 12/26/17        | 9/30/18        |                           | IncrPred        | 10/6/17         | 10/31/18        |                         | <b>FOTB</b>     | <b>3/17/13</b> | <b>6/30/19</b> |
|                          | AmazAdve        | 1/10/18         | 5/23/18        |                           | JTM             | 12/26/13        | 6/30/18         |                         | G3DNW           | 2/10/15        | 6/10/18        |
|                          | <b>AMJ</b>      | <b>5/25/18</b>  | <b>5/24/19</b> |                           | NPA             | 2/12/16         | 6/20/18         | <b>Hong Kong SM</b>     | AmazAdve        | 3/1/18         | 8/31/18        |

| Theater                                                                                   | Film                        | Open     | Close    | Theater                                                                     | Film                    | Open     | Close    | Theater                                                     | Film           | Open     | Close    |
|-------------------------------------------------------------------------------------------|-----------------------------|----------|----------|-----------------------------------------------------------------------------|-------------------------|----------|----------|-------------------------------------------------------------|----------------|----------|----------|
| Houston MNS                                                                               | AmazAdve                    | 4/21/17  | 12/31/18 | Mexicali<br>Mexico City Pap                                                 | WildAfri                | 1/7/17   | 5/25/18  | Poznan CC<br>Prague CC                                      | NPA            | 2/12/16  | 6/30/18  |
|                                                                                           | DinoAliv                    | 7/1/17   | 6/30/19  |                                                                             | WWDPP3D                 | 5/21/15  | 5/31/18  |                                                             | TA             | 1/26/18  | 1/31/19  |
|                                                                                           | DreamBig                    | 2/17/17  | 12/31/19 |                                                                             | NPA                     | 4/22/18  | 10/22/18 |                                                             | WildAfri       | 1/26/18  | 1/31/19  |
|                                                                                           | G3DNW                       | 2/15/14  | 5/31/18  |                                                                             | AmazAdve                | 11/17/17 | 11/16/18 |                                                             | WWDPP3D        | 1/26/18  | 1/31/19  |
|                                                                                           | Hurrican                    | 1/8/18   | 10/31/18 |                                                                             | AMJ                     | 3/15/18  | 3/14/19  |                                                             | G3DNW          | 6/18/14  | 9/19/18  |
| Huntsville USSRC                                                                          | IncrPred                    | 9/15/17  | 9/30/18  | Milwaukee                                                                   | DreamBig                | 3/15/17  | 3/14/18  | Quebec Cpx<br>Raleigh                                       | G3DNW          | 5/22/14  | 9/19/18  |
|                                                                                           | TinyGian                    | 1/12/15  | 6/30/18  |                                                                             | AmazAdve                | 10/1/17  | 6/30/18  |                                                             | TTA            | 12/8/17  | 12/1/18  |
|                                                                                           | WildAfri                    | 6/1/16   | 6/30/19  |                                                                             | DreamBig                | 7/10/17  | 7/9/18   |                                                             | RME            | 7/14/17  | 7/14/18  |
|                                                                                           | DreamBig                    | 2/17/17  | 8/28/18  |                                                                             | HumpbWha                | 2/1/18   | 1/30/19  |                                                             | D-Day          | 5/23/14  | 2/1/19   |
|                                                                                           | FightPil                    | 7/1/13   |          |                                                                             | Penguins                | 10/23/17 | 6/20/19  |                                                             | DreamBig       | 2/17/17  | 8/16/18  |
| Hutchinson                                                                                | JTS                         | 2/13/15  | 3/21/18  | Mobile                                                                      | WWDPP3D                 | 2/1/16   | 6/30/18  | Regina                                                      | FOTB           | 10/19/17 | 6/30/18  |
|                                                                                           | SpaceNex                    | 3/1/16   | 5/3/18   |                                                                             | DreamBig                | 9/23/17  | 9/22/18  |                                                             | JTS            | 6/16/17  | 6/15/18  |
|                                                                                           | ACGOTS                      | 5/29/17  | 11/30/18 |                                                                             | G3DNW                   | 1/18/18  | 5/18/18  |                                                             | NPA            | 2/27/16  | 6/30/18  |
|                                                                                           | AirRacer                    | 1/19/18  | 1/31/19  |                                                                             | GlobSoun                | 10/18/17 | 10/1/18  |                                                             | AmazAdve       | 2/16/18  | 2/15/19  |
|                                                                                           | AMJ                         | 2/23/18  | 8/22/18  |                                                                             | NPA                     | 5/26/18  | 5/25/19  |                                                             | AMJ            | 5/11/18  | 5/12/19  |
| Indianapolis Imx                                                                          | D-Day                       | 12/31/17 | 1/31/20  | Monterrey Pap                                                               | AMJ                     | 3/15/18  | 9/15/18  | Richmond SMV                                                | DreamBig       | 2/17/17  | 5/4/18   |
|                                                                                           | GWS                         | 7/1/17   | 12/31/18 |                                                                             | DreamBig                | 2/2/18   | 2/1/19   |                                                             | GWS            | 6/1/17   | 5/31/18  |
|                                                                                           | JTS                         | 2/20/15  | 7/2/18   |                                                                             | JTTSP                   | 6/10/16  | 3/1/18   |                                                             | AmazAdve       | 5/1/18   | 5/1/19   |
|                                                                                           | Kenya                       | 5/30/15  | 6/30/19  |                                                                             | AmazAdve                | 10/6/17  | 3/30/18  |                                                             | DreamBig       | 2/18/17  | 3/1/18   |
|                                                                                           | LITAOA                      | 5/1/15   | 6/18     |                                                                             | AMJ                     | 5/18/18  | 5/17/19  |                                                             | FOTB           | 5/1/13   | 6/30/18  |
| Jersey City                                                                               | SpaceNex                    | 9/8/17   | 3/31/18  | Montreal SC                                                                 | IncrPred                | 6/23/17  | 6/30/18  | Rochester MSC                                               | GCA            | 6/1/16   | 7/31/19  |
|                                                                                           | SpacJunk                    | 10/31/14 | 10/31/18 |                                                                             | TinyGian                | 9/18/17  | 9/30/18  |                                                             | HumpbWha       | 3/14/15  | 7/31/19  |
|                                                                                           | AmazAdve                    | 9/8/17   | 6/7/18   |                                                                             | AMJ                     | 4/15/18  | 4/14/19  |                                                             | NPA            | 4/10/16  | 4/30/18  |
|                                                                                           | Hurrican                    | 2/9/18   | 2/8/19   |                                                                             | DreamBig                | 9/10/17  | 12/31/18 |                                                             | WildAfri       | 2/1/17   |          |
|                                                                                           | NPA                         | 2/12/16  | 12/31/18 |                                                                             | G3DNW                   | 10/6/14  | 8/31/18  |                                                             | Dolphins       | 12/1/17  | 12/31/18 |
| Kansas City Sci                                                                           | ACGOTS                      | 12/9/17  | 5/14/18  | Mumbai NSC<br>Nanchang JTSC<br>Nanjing YSTC<br>New Delhi ICC<br>New Orleans | NPA                     | 9/17/16  | 12/31/18 | Sacramento Imx                                              | ToFly          | 7/1/16   | 6/30/18  |
|                                                                                           | MOC                         | 11/1/17  | 5/30/18  |                                                                             | TTA                     | 11/1/16  | 12/31/18 |                                                             | AmazAdve       | 9/8/17   | 3/7/18   |
|                                                                                           | NPA                         | 2/12/16  | 6/24/19  |                                                                             | NPA                     | 8/4/17   | 6/30/18  |                                                             | AmazAdve       | 9/8/17   | 6/30/18  |
|                                                                                           | DreamBig                    | 5/26/17  | 5/25/18  |                                                                             | CRA                     |          | 6/30/18  |                                                             | ExtrWeat       | 2/24/17  |          |
|                                                                                           | Mummies                     | 6/20/17  | 6/20/18  |                                                                             | NPA                     | 8/25/17  | 8/24/18  |                                                             | FOTB           | 8/13/13  | 6/30/18  |
| Katoomba<br>Katowice CC<br>Keelung NMMST<br>Krakow CC<br>KSC 1<br>Kurashiki<br>Kuwait SCK | WATE                        | 6/1/97   |          | New York AMNH                                                               | ND                      |          |          | Saint Augustine                                             | GWS            | 2/20/15  | 6/30/19  |
|                                                                                           | G3DNW                       | 6/18/14  | 9/19/18  |                                                                             | HOTB                    | 9/15/15  | 12/31/18 |                                                             | Mummies        | 1/1/17   | 6/30/19  |
|                                                                                           | NPA                         | 7/1/17   | 6/30/18  |                                                                             | TOTIA                   | 7/1/17   | 6/30/19  |                                                             | TLR            | 5/20/16  | 6/30/19  |
|                                                                                           | G3DNW                       | 6/18/14  | 9/19/18  |                                                                             | Wild Ocean              | 7/1/17   | 6/30/19  |                                                             | AmazAdve       | 4/28/17  | 4/30/18  |
|                                                                                           | JTS                         | 2/27/15  |          |                                                                             | AmazAdve                | 3/9/18   | 9/14/18  |                                                             | AMMM           | 8/19/17  | 8/18/18  |
| Las Palmas<br>Lehi                                                                        | ConqOTS                     | 7/15/17  | 4/8/18   | Niagara Can DCI<br>Niagara NY DCI<br>Norwalk MA                             | Earthflight             | 9/15/17  | 3/8/18   | Saint Félicien                                              | FOTB           | 1/18/13  | 12/31/18 |
|                                                                                           | AMMM                        | 2/11/18  | 8/11/18  |                                                                             | Niagara                 | 7/1/86   |          |                                                             | Gruffalo       | 1/1/15   | 12/31/18 |
|                                                                                           | DreamBig                    | 6/25/17  | 3/31/18  |                                                                             | Niagara                 | 5/1/07   |          |                                                             | GruffChi       | 2/1/15   | 12/31/18 |
|                                                                                           | ExtrWeat                    | 11/1/17  | 4/30/18  |                                                                             | AmazAdve                | 7/1/17   | 6/30/18  |                                                             | ROTB           | 10/3/15  | 12/31/18 |
|                                                                                           | Hurrican                    | 4/19/18  | 10/18/18 |                                                                             | BackWild                | 3/24/18  | 9/30/18  |                                                             | TinyGian       | 5/1/16   | 4/30/18  |
| Leon Exp<br>Lodz CC                                                                       | NPA                         | 11/1/17  | 5/16/18  | Nuremberg                                                                   | DreamBig                | 2/17/17  | 6/22/18  | Saint Louis SC                                              | TOTIA          | 5/1/16   | 4/30/18  |
|                                                                                           | TinyGian                    | 9/1/17   | 3/1/18   |                                                                             | HumpbWha                |          | 12/31/18 |                                                             | AmazAdve       | 9/22/17  | 4/21/18  |
|                                                                                           | WM                          | 9/1/17   | 8/31/18  |                                                                             | NPA                     | 3/10/16  | 6/30/18  |                                                             | DreamBig       | 2/17/17  | 5/31/18  |
|                                                                                           | TinyGian                    | 5/30/16  | 5/30/18  |                                                                             | GWS                     | 6/1/17   | 5/31/18  |                                                             | JTTSP          | 1/12/18  | 5/31/18  |
|                                                                                           | London BFI Ode<br>London SM | IncrPred | 9/29/17  | 9/30/18                                                                     | Omaha Zoo<br>Orlando SC | AmazAdve | 2/24/18  | 2/23/19                                                     | Saint Paul SMM | NPA      | 2/12/16  |
| NPA                                                                                       |                             | 3/24/17  | 3/2/18   | AOTE                                                                        |                         | 11/1/17  | 10/31/18 | DreamBig                                                    |                | 3/2/18   | 12/31/18 |
| SpaceNex                                                                                  |                             | 6/30/17  | 6/30/18  | DreamBig                                                                    |                         | 2/17/17  | 8/16/18  | JIAC                                                        |                | 1/1/18   | 3/1/18   |
| DreamBig                                                                                  |                             | 12/1/17  | 5/31/18  | G3DNW                                                                       |                         | 7/5/14   | 1/4/19   | JTTSP                                                       |                | 5/5/17   | 6/1/18   |
| Bugs                                                                                      |                             | 8/24/15  | 8/24/18  | JMCSO                                                                       |                         | 7/1/17   | 6/30/18  | MOF                                                         |                | 1/1/18   | 3/1/18   |
| Los Angeles CSC                                                                           | G3DNW                       | 6/18/14  | 9/19/18  | Paris Geo                                                                   | Kenya                   | 9/1/17   | 8/31/18  | Salt Lake City Clark                                        | RME            | 10/13/17 | 3/1/18   |
|                                                                                           | AMMM                        | 9/1/17   | 8/30/18  |                                                                             | NPA                     | 2/12/16  | 11/17/18 |                                                             | ACGOTS         | 6/15/17  | 6/7/18   |
|                                                                                           | Bugs                        | 10/22/16 | 7/31/18  |                                                                             | WWDPP3D                 | 4/1/17   | 3/31/18  |                                                             | AmazAdve       | 4/15/17  | 6/8/18   |
|                                                                                           | DreamBig                    | 9/4/17   | 8/31/19  |                                                                             | AMJ                     | 3/7/18   | 3/6/19   |                                                             | ConqOTS        | 4/6/18   | 4/5/19   |
|                                                                                           | SpaceNex                    | 3/1/18   | 2/28/19  |                                                                             | HumpbWha                | 7/7/15   | 4/8/18   |                                                             | DreamBig       | 9/1/17   | 8/24/18  |
| Louisville KSC                                                                            | AmazAdve                    | 10/11/17 | 10/10/18 | Parker                                                                      | NPA                     | 4/3/17   | 4/8/18   | San Diego MV AMC<br>San Diego NHM<br>San Diego RHF          | FOTB           | 2/8/13   | 6/30/18  |
|                                                                                           | Hurrican                    | 10/10/17 | 4/10/18  |                                                                             | SFLIS                   | 1/30/18  | 1/29/19  |                                                             | JTS            | 5/15/15  | 5/31/18  |
|                                                                                           | JTS                         | 10/29/15 | 9/3/18   |                                                                             | DreamBig                | 12/2/17  | 6/1/18   |                                                             | SFLIS          | 2/16/18  | 2/15/19  |
|                                                                                           | BackWild                    | 3/23/18  | 3/22/19  |                                                                             | HumpbWha                | 1/27/18  | 7/27/18  |                                                             | ACGOTS         | 11/10/17 | 11/9/18  |
|                                                                                           | DreamBig                    | 2/17/17  | 9/1/18   | Pensacola NAM                                                               | ACGOTS                  | 5/26/17  | 6/30/19  |                                                             | IncrPred       | 9/1/17   | 8/31/18  |
| FON                                                                                       | 6/18/15                     | 7/2/18   | DreamBig |                                                                             | 3/1/17                  | 6/30/18  | Bugs     | 7/1/14                                                      | 6/30/18        |          |          |
| FOTB                                                                                      | 9/30/12                     | 6/30/18  | Hurrican |                                                                             | 3/13/17                 | 3/12/18  | DreamBig | 3/10/17                                                     | 4/1/19         |          |          |
| G3DNW                                                                                     | 6/18/15                     | 6/30/18  | MOF      |                                                                             | 11/8/96                 |          | FOTB     | 10/12/12                                                    | 6/30/18        |          |          |
| Jerusale                                                                                  | 1/20/14                     | 7/2/18   | RobotsNG |                                                                             | 4/15/17                 |          | AmazAdve | 5/6/17                                                      | 4/30/18        |          |          |
| Lucerne                                                                                   | JTS                         | 4/3/15   | 6/30/18  | Peoria RM                                                                   | AmazAdve                | 3/31/18  | 9/30/18  | San Jose Tech                                               | AMJ            | 2/17/18  | 2/16/19  |
|                                                                                           | JTTSP                       | 6/30/17  | 6/29/18  |                                                                             | AMJ                     | 2/16/18  | 2/15/19  |                                                             | DreamBig       | 2/17/17  | 8/24/18  |
|                                                                                           | TA                          | 2/1/16   | 6/30/18  |                                                                             | D-Day                   | 4/2/15   | 10/31/18 |                                                             | GWS            | 10/1/17  | 10/31/18 |
|                                                                                           | TinyGian                    | 9/21/17  | 9/30/18  |                                                                             | FOTB                    | 4/1/16   | 6/30/18  |                                                             | JTS            | 4/30/16  | 6/30/18  |
|                                                                                           | TLR                         | 2/1/16   | 6/30/18  |                                                                             | MOC                     | 6/1/17   | 5/31/18  |                                                             | NPA            | 2/12/16  | 7/31/18  |
| Lubbock SS                                                                                | AmazAdve                    | 6/2/17   | 5/30/18  | Philadelphia FI                                                             | MOTUW                   | 1/17/15  | 3/30/18  | San Simeon DCI<br>Seattle PSC 2                             | HCBTD          | 8/17/96  |          |
|                                                                                           | DreamBig                    | 2/2/18   | 2/1/19   |                                                                             | WildAfri                | 8/10/17  | 8/30/18  |                                                             | AmazAdve       | 11/10/17 | 11/10/17 |
|                                                                                           | MOC                         | 10/1/17  | 10/31/18 |                                                                             | DreamBig                | 3/1/18   | 2/28/19  |                                                             | D-Day          | 3/29/14  | 6/30/19  |
|                                                                                           | Dolphins                    | 5/1/18   | 5/31/18  |                                                                             | G3DNW                   | 9/6/16   | 12/31/18 |                                                             | DreamBig       | 2/17/17  | 2/16/19  |
|                                                                                           | HumpbWha                    | 10/6/16  | 4/6/18   |                                                                             | JMCSO                   | 6/16/17  | 7/3/18   |                                                             | FOTB           |          | 6/30/18  |
| Lucknow<br>McMinnville                                                                    | Hurrican                    | 3/16/17  | 6/15/18  | Phoenix ASC                                                                 | MOC                     | 9/30/17  | 9/30/18  | Shanghai 3D STM                                             | Hurrican       | 1/1/18   | 3/31/18  |
|                                                                                           | MOTN                        | 3/1/18   | 3/31/18  |                                                                             | RobotsNG                | 10/1/16  |          |                                                             | MOC            | 3/10/17  | 3/31/18  |
|                                                                                           | NPA                         | 3/17/16  | 4/30/18  |                                                                             | AOTE                    | 12/26/17 | 12/31/18 |                                                             | RME            |          | 9/1/18   |
|                                                                                           | RME                         |          | 9/1/18   |                                                                             | ConqOTS                 | 11/3/17  | 3/31/18  |                                                             | SFLIS          | 9/5/17   | 9/4/18   |
|                                                                                           | WildAfri                    | 9/21/17  | 9/30/18  |                                                                             | FOTB                    | 10/7/16  | 8/18/18  |                                                             | DreamBig       | 9/19/17  | 9/18/18  |
| Melbourne MV                                                                              | Greece                      | 12/1/17  | 11/30/18 | Pittsburgh CSC                                                              | JTTSP                   | 6/16/17  | 6/15/18  | Shijiazhuang HST<br>Singapore SC<br>Sinsheim<br>Sioux Falls | MA             | 12/1/17  | 11/30/18 |
|                                                                                           | FightPil                    | 3/23/12  |          |                                                                             | AmazAdve                | 11/17/17 | 6/30/18  |                                                             | Alaska         | 1/1/17   | 1/1/19   |
|                                                                                           | Hurrican                    | 3/1/17   | 8/31/18  |                                                                             | Animalop                | 11/17/17 | 3/31/18  |                                                             | RobotsNG       | 5/1/17   | 4/30/18  |
|                                                                                           | LOF                         | 3/23/12  |          |                                                                             | DreamBig                | 11/17/17 | 12/31/18 |                                                             | NPA            | 3/4/16   | 6/30/18  |
|                                                                                           | Rescue                      | 6/1/12   |          |                                                                             | HumpbWha                | 6/17/16  | 12/31/18 |                                                             | AmazAdve       | 12/2/17  | 5/31/18  |
| Memphis Pink                                                                              | AmazAdve                    | 9/15/17  | 9/13/18  | Poitiers Imax<br>Port of Spain                                              | NPA                     | 2/12/16  | 12/31/18 | Speyer Dome                                                 | DreamBig       | 6/2/17   | 6/2/18   |
|                                                                                           | AMMM                        | 7/11/16  |          |                                                                             | TinyGian                | 11/15/17 | 11/30/18 |                                                             | IncrPred       | 12/22/16 | 6/30/18  |
|                                                                                           | G3DNW                       | 4/11/16  | 4/10/18  |                                                                             | TinyGian                | 4/1/16   | 4/30/19  |                                                             | MOC            | 1/25/18  | 1/31/19  |
|                                                                                           | MA                          | 1/30/17  | 1/28/19  |                                                                             | FOTB                    | 10/6/17  | 10/5/18  |                                                             | TinyGian       | 7/1/17   | 6/30/19  |
|                                                                                           | Mummies                     | 9/22/17  | 9/30/18  |                                                                             | JMCSO                   | 2/7/17   | 2/28/19  |                                                             | TLR            | 7/1/17   | 6/30/19  |
| Portland OMSI ET                                                                          | SFLIS                       | 3/16/17  | 3/22/18  | Portland OMSI ET                                                            | JTM                     | 10/6/17  | 10/5/18  | Stockholm                                                   | WildAfri       | 8/1/17   | 8/30/18  |
|                                                                                           | TinyGian                    | 9/22/17  | 9/30/18  |                                                                             | AmazAdve                | 2/16/18  | 2/15/19  |                                                             | Dolphins       | 6/1/00   | 6/30/18  |
|                                                                                           | TOTIA                       | 9/22/17  | 9/30/18  |                                                                             | AOTE                    | 1/26/18  | 1/31/19  |                                                             | JTTSP          | 5/25/17  | 5/24/18  |
|                                                                                           | WildAfri                    | 1/4/18   | 1/31/19  |                                                                             | D-Day                   | 11/10/14 | 3/1/18   |                                                             | MOF            | 12/1/97  | 12/31/18 |
|                                                                                           | WWDPP3D                     | 9/22/17  | 9/30/18  |                                                                             | DinoAliv                | 1/26/18  | 1/31/19  |                                                             | Animalop       | 10/1/17  | 10/1/19  |
| Sudbury                                                                                   | ACGOTS                      | 5/7/16   | 6/22/18  | Port of Spain                                                               | DreamBig                | 2/17/17  | 3/1/18   | Sudbury                                                     | DinoAliv       | 6/1/17   | 6/1/18   |
|                                                                                           | DreamBig                    | 2/10/18  | 3/2/19   |                                                                             | FOTB                    | 1/7/14   | 6/30/18  |                                                             | DreamBig       | 3/15/18  | 3/15/19  |
|                                                                                           | ExtrWeat                    | 3/24/17  | 5/28/18  |                                                                             | GWS                     | 1/26/18  | 1/31/19  |                                                             | JTTSP          |          | 6/30/18  |
|                                                                                           | HumpbWha                    | 3/7/15   | 5/28/18  |                                                                             | JMCSO                   | 3/1/17   | 2/28/19  |                                                             | AmazAdve       | 10/6/17  | 10/5/18  |
|                                                                                           | JTS                         | 1/9/16   | 5/29/18  |                                                                             | JTS                     | 3/20/15  | 3/21/19  |                                                             | D-Day          | 5/30/16  | 6/30/18  |
|                                                                                           | NPA                         | 3/5/16   | 5/31/18  |                                                                             | Mummies                 | 1/26/18  | 1/31/19  |                                                             | DreamBig       | 2/17/17  | 6/30/19  |

| Theater                          | Film        | Open     | Close    | Theater       | Film     | Open     | Close    | Theater                      | Film     | Open     | Close    |
|----------------------------------|-------------|----------|----------|---------------|----------|----------|----------|------------------------------|----------|----------|----------|
| Taichung NMNS<br>Tallahassee CLC | JMCSO       | 3/11/17  | 6/30/18  | Valencia Spn  | RME      | 9/1/18   |          | Virginia Beach AMSC          | FOTB     | 4/5/13   | 6/30/18  |
|                                  | MOC         | 9/7/17   | 9/30/18  |               | JMCSO    | 4/1/17   | 9/30/18  |                              | G3DNW    | 9/4/15   | 6/30/18  |
|                                  | NPA         | 2/12/16  | 3/30/19  |               | JTS      | 8/1/17   | 5/1/18   |                              | Hurrican | 2/1/18   | 1/31/19  |
|                                  | TinyGian    | 6/24/16  | 6/30/18  |               | NPA      | 10/7/16  | 9/30/18  |                              | MA       | 11/24/17 | 5/23/18  |
|                                  | SFLIS       | 7/1/17   | 6/30/18  |               | WWDDPP3D | 7/1/16   | 7/1/18   |                              | Mummies  | 2/2/18   | 3/8/18   |
|                                  | AmazAdve    | 4/28/17  | 10/27/18 | Vancouver TWS | AmazAdve | 12/22/17 | 12/21/18 |                              | RME      |          | 9/1/18   |
|                                  | AMJ         | 2/16/18  | 2/15/19  |               | AMJ      | 3/17/18  | 3/16/19  |                              | RobotsNG | 2/3/17   |          |
|                                  | DreamBig    | 2/17/17  | 3/1/18   |               | Bugs     | 3/11/06  | 6/30/18  |                              | SFLIS    | 9/22/17  | 9/21/18  |
|                                  | ExtrWeat    | 5/19/17  | 5/1/18   |               | DreamBig | 3/4/17   | 3/16/18  |                              | WWDDPP3D | 5/1/17   | 4/30/18  |
|                                  | FOTB        | 1/18/13  | 6/30/18  |               | GlobSoun | 10/1/16  | 10/1/18  |                              | AmazAdve | 5/27/17  | 6/30/18  |
| Thessaloniki<br>Tijuana          | MA          | 7/14/17  | 7/13/18  | Victoria DCI  | HumanBod | 7/1/16   | 6/30/18  |                              | G3DNW    | 5/28/16  | 5/29/18  |
|                                  | TinyGian    | 1/6/16   | 6/30/18  |               | Mummies  | 7/1/17   | 6/30/18  | Warsaw CC<br>Washington NASM | G3DNW    | 6/18/14  | 9/19/18  |
|                                  | WildAfri    | 5/15/16  | 6/30/19  |               | NPA      | 2/12/16  | 6/30/18  |                              | ACGOTS   | 5/26/17  | 5/25/19  |
|                                  | WWDDPP3D    | 4/19/16  | 6/30/18  |               | Pulse    | 7/1/17   | 6/30/18  |                              | D-Day    | 5/23/17  | 5/22/19  |
|                                  | DreamBig    | 10/28/17 | 10/27/18 |               | RME      |          | 9/1/18   |                              | DreamBig | 2/17/17  | 2/16/20  |
| Tokyo TSC<br>Toronto OSC         | AMJ         | 3/1/18   | 2/28/19  |               | TOTIA    | 7/1/17   | 6/30/18  |                              | JTS      | 3/6/15   |          |
|                                  | Ocean Oasis | 10/15/17 | 3/15/18  |               | WOTA     | 7/1/17   | 6/30/18  | Wroclaw CC<br>Yellowstone    | TO FLY   | 7/1/76   | 12/31/18 |
|                                  | VanGogh     | 3/24/17  | 3/23/18  |               | AmazAdve | 4/14/17  | 6/30/18  |                              | ToFly    | 3/7/16   | 12/31/18 |
|                                  | MA          | 3/18/17  | 3/17/18  |               | AMJ      | 3/9/18   | 3/8/19   |                              | G3DNW    | 10/4/17  | 9/19/18  |
|                                  | AmazAdve    | 10/6/17  | 9/30/18  |               | D-Day    | 7/1/17   | 7/1/18   |                              | NPA      | 5/1/16   | 2/11/19  |
|                                  | CRA         | 2/24/18  | 2/23/19  |               | DreamBig | 3/17/17  | 3/16/18  |                              |          |          |          |
|                                  | DreamBig    | 2/17/17  | 8/16/18  |               | DSC      | 2/3/17   | 3/2/18   |                              |          |          |          |

## Key to Film Abbreviations

| Film     | Title                                    | Year | Dist |      | Film     | Title                                         | Year | Dist |      |
|----------|------------------------------------------|------|------|------|----------|-----------------------------------------------|------|------|------|
| ACGOTS   | Aircraft Carrier: Guardian of the Seas   | 2016 | 3D   | K2   | MOTUW    | Mysteries of the Unseen World                 | 2013 | 3D   | CPD  |
| AirRacer | Air Racers 3D: Forces of Flight          | 2012 | 3D   | K2   | Mummies  | Mummies: Secrets of the Pharaohs              | 2007 |      | GSF  |
| AIWC     | Adventures in Wild California            | 2000 |      | MFF  | ND       | Neelkanth Darshan                             | 2005 |      | unk  |
| Alaska   | Alaska: Spirit of the Wild               | 1997 |      | K2   | Niagara  | Niagara: Miracles, Myths, and Magic           | 1987 |      | K2   |
| AmazAdve | Amazon Adventure                         | 2017 | 3D   | SKF  | NPA      | National Parks Adventure                      | 2016 | 3D   | MFF  |
| Amazon   | Amazon                                   | 1997 |      | MFF  | Ozarks   | Ozarks: Legacy and Legend                     | 1993 |      | IMAX |
| AMJ      | America's Musical Journey                | 2018 | 3D   | MFF  | Penguins | Penguins 3D                                   | 2013 | 3D   | nWP  |
| AMMM     | Amazing Mighty Micro Monsters 3D         | 2016 | 3D   | SER  | PTJH     | Pandas: The Journey Home                      | 2014 | 3D   | CPD  |
| Animalop | Animalopolis                             | 2008 | 3D   | K2   | Pulse    | Pulse: A Stomp Odyssey                        | 2002 |      | GSF  |
| AOTE     | Antarctica 3D: On the Edge               | 2014 | 3D   | GSF  | Rescue   | Rescue 3D                                     | 2011 | 3D   | K2   |
| AsterME  | Asteroid: Mission Extreme                | 2016 | 3D   | CPD  | RME      | Rocky Mountain Express                        | 2011 |      | SLC  |
| BackWild | Backyard Wilderness                      | 2018 | 3D   | SKF  | RobotsNG | Robots                                        | 2015 | 3D   | CPD  |
| Bugs     | Bugs!                                    | 2003 | 3D   | SKF  | ROTB     | Room on the Broom                             | 2015 | 3D   | B&D  |
| ConqOTS  | Conquest of the Skies                    | 2017 | 3D   | SER  | SeaMonst | Sea Monsters: A Prehistoric Adventure         | 2007 |      | CPD  |
| CRA      | Coral Reef Adventure                     | 2003 |      | MFF  | SFLIS    | Search for Life In Space 3D, The              | 2016 | 3D   | MFF  |
| D-Day    | D-Day: Normandy 1944                     | 2014 | 3D   | K2   | SOG      | Secrets of Gravity, The                       | 2017 | 3D   | B&D  |
| DIA      | Dream is Alive, The                      | 1985 |      | IMAX | SpaceNex | Space Next 3D                                 | 2015 | 3D   | B&D  |
| DinoAliv | Dinosaurs Alive                          | 2007 | 3D   | GSF  | SpacJunk | Space Junk                                    | 2012 | 3D   | K2   |
| Dolphins | Dolphins                                 | 2000 |      | MFF  | TA       | Tornado Alley                                 | 2011 | 3D   | GSF  |
| DreamBig | Dream Big: Engineering Our World         | 2017 | 3D   | MFF  | TinyGian | Tiny Giants 3D                                | 2014 | 3D   | GSF  |
| DSC      | Deepsea Challenge 3D                     | 2015 | 3D   | CPD  | ToFly    | To Fly!                                       | 1976 |      | MFF  |
| Everest  | Everest                                  | 1998 |      | MFF  | TOTIA    | Titans of the Ice Age                         | 2013 | 3D   | GSF  |
| ExtrWeat | Extreme Weather                          | 2016 | 3D   | CPD  | TTA      | To the Arctic                                 | 2012 | 3D   | IMAX |
| FightPil | Fighter Pilot: Operation Red Flag        | 2004 | 3D   | K2   | VanGogh  | Van Gogh: Brush with Genius                   | 2009 |      | MFF  |
| FON      | Forces of Nature                         | 2004 |      | NGD  | WATE     | Wild Australia: The Edge                      | 1997 |      | MSI  |
| FOTB     | Flight of the Butterflies                | 2012 | 3D   | SKF  | WildAfri | Wild Africa 3D                                | 2015 | 3D   | GSF  |
| G3DNW    | Galapagos 3D: Nature's Wonderland        | 2014 | 3D   | nWP  | WM       | Watermelon Magic                              | 2013 | 3D   | B&D  |
| GC       | Grand Canyon: The Hidden Secrets         | 1985 |      | K2   | WOTA     | Wonders of the Arctic                         | 2014 | 3D   | GSF  |
| GCA      | Grand Canyon Adventure: River at Risk 3D | 2008 | 3D   | MFF  | WWDDPP3D | Walking With Dinosaurs: Prehistoric Planet 3D | 2014 | 3D   | GSF  |
| GlobSoun | Global Soundscapes                       | 2016 | 3D   | FIC  |          |                                               |      |      |      |
| Greece   | Greece: Secrets of the Past              | 2006 |      | MFF  |          |                                               |      |      |      |
| Gruffalo | Gruffalo, The                            | 2014 | 3D   | B&D  |          |                                               |      |      |      |
| GruffChi | Gruffalo's Child                         | 2015 | 3D   | B&D  |          |                                               |      |      |      |
| GWS      | Great White Shark                        | 2013 | 3D   | GSF  |          |                                               |      |      |      |
| HCBTD    | Hearst Castle: Building the Dream        | 1996 |      | K2   |          |                                               |      |      |      |
| HidUniv  | Hidden Universe                          | 2013 | 3D   | MFF  |          |                                               |      |      |      |
| HOTB     | Hurricane on the Bayou                   | 2006 |      | MFF  |          |                                               |      |      |      |
| HumanBod | Human Body, The                          | 2001 |      | NGD  |          |                                               |      |      |      |
| HumpbWha | Humpback Whales                          | 2015 | 3D   | MFF  |          |                                               |      |      |      |
| Hurrican | Hurricane                                | 2017 | 3D   | nWP  |          |                                               |      |      |      |
| IncrPred | Incredible Predators                     | 2016 | 3D   | GSF  |          |                                               |      |      |      |
| Jerusale | Jerusalem                                | 2013 | 3D   | CPD  |          |                                               |      |      |      |
| JIAC     | Journey into Amazing Caves               | 2001 |      | MFF  |          |                                               |      |      |      |
| JMCSO    | Jean-Michel Cousteau's Secret Ocean      | 2015 | 3D   | 3DED |          |                                               |      |      |      |
| JTM      | Journey to Mecca                         | 2009 |      | SKF  |          |                                               |      |      |      |
| JTS      | Journey to Space                         | 2015 | 3D   | K2   |          |                                               |      |      |      |
| JTTSP    | Journey to the South Pacific             | 2013 | 3D   | MFF  |          |                                               |      |      |      |
| Kenya    | Kenya 3D: Animal Kingdom                 | 2013 | 3D   | 3DED |          |                                               |      |      |      |
| L&C      | Lewis & Clark: Great Journey West        | 2002 |      | CPD  |          |                                               |      |      |      |
| LastReef | Last Reef, The                           | 2012 | 3D   | GSF  |          |                                               |      |      |      |
| LITAOA   | Living in the Age of Airplanes           | 2015 |      | CPD  |          |                                               |      |      |      |
| LivingSe | Living Sea, The                          | 1995 |      | MFF  |          |                                               |      |      |      |
| LOF      | Legends of Flight                        | 2010 | 3D   | K2   |          |                                               |      |      |      |
| MA       | Museum Alive 3D                          | 2016 | 3D   | SER  |          |                                               |      |      |      |
| MOC      | Mysteries of China                       | 2016 | 3D   | GSF  |          |                                               |      |      |      |
| MOF      | Magic of Flight, The                     | 1997 |      | MFF  |          |                                               |      |      |      |
| MOTN     | Mystery of the Nile                      | 2005 |      | MFF  |          |                                               |      |      |      |

| March-April 2018 Bookings Count |          |   |          |   |             |   |             |  |  |
|---------------------------------|----------|---|----------|---|-------------|---|-------------|--|--|
| #                               | Film     | # | Film     | # | Film        | # | Film        |  |  |
| 64                              | DreamBig | 8 | SFLIS    | 2 | GCA         | 1 | HCBTD       |  |  |
| 47                              | AmazAdve | 7 | Bugs     | 2 | Greece      | 1 | HOTB        |  |  |
| 44                              | NPA      | 6 | BackWild | 2 | HidUniv     | 1 | HumanBod    |  |  |
| 24                              | FOTB     | 6 | RobotsNG | 2 | Jerusale    | 1 | L&C         |  |  |
| 21                              | G3DNW    | 6 | SpaceNex | 2 | JIAC        | 1 | LastReef    |  |  |
| 19                              | AMJ      | 6 | TOTIA    | 2 | JTM         | 1 | LITAOA      |  |  |
| 18                              | D-Day    | 5 | ConqOTS  | 2 | Kenya       | 1 | LivingSe    |  |  |
| 18                              | JTS      | 5 | DinoAliv | 2 | Niagara     | 1 | LOF         |  |  |
| 17                              | TinyGian | 5 | FightPil | 2 | ROTB        | 1 | MOTN        |  |  |
| 14                              | ACGOTS   | 5 | GlobSoun | 2 | SpacJunk    | 1 | ND          |  |  |
| 12                              | Hurrican | 5 | TA       | 2 | ToFly       | 1 | Ocean Oasis |  |  |
| 12                              | WildAfri | 4 | AMMM     | 2 | Wild Ocean  | 1 | Ozarks      |  |  |
| 11                              | IncrPred | 4 | CRA      | 1 | AirRacer    | 1 | PTJH        |  |  |
| 11                              | WWDDPP3D | 4 | Dolphins | 1 | AIWC        | 1 | Pulse       |  |  |
| 10                              | GWS      | 4 | TTA      | 1 | Alaska      | 1 | Rescue      |  |  |
| 10                              | JTTSP    | 3 | AOTE     | 1 | Amazon      | 1 | SeaMonst    |  |  |
| 10                              | MA       | 3 | AsterME  | 1 | DIA         | 1 | SOG         |  |  |
| 9                               | ExtrWeat | 3 | FON      | 1 | DSC         | 1 | TO FLY      |  |  |
| 9                               | HumpbWha | 3 | MOF      | 1 | Earthflight | 1 | VanGogh     |  |  |
| 9                               | MOC      | 3 | MOTUW    | 1 | Everest     | 1 | WATE        |  |  |
| 9                               | RME      | 3 | Penguins | 1 | GC          | 1 | WM          |  |  |
| 8                               | JMCSO    | 3 | TLR      | 1 | Gruffalo    | 1 | WOTA        |  |  |
| 8                               | Mummies  | 2 | Animalop | 1 | GruffChi    |   |             |  |  |

### March-April 2018 Bookings Count

| #  | Film     | # | Film     | # | Film        | # | Film        |
|----|----------|---|----------|---|-------------|---|-------------|
| 64 | DreamBig | 8 | SFLIS    | 2 | GCA         | 1 | HCBTD       |
| 47 | AmazAdve | 7 | Bugs     | 2 | Greece      | 1 | HOTB        |
| 44 | NPA      | 6 | BackWild | 2 | HidUniv     | 1 | HumanBod    |
| 24 | FOTB     | 6 | RobotsNG | 2 | Jerusale    | 1 | L&C         |
| 21 | G3DNW    | 6 | SpaceNex | 2 | JIAC        | 1 | LastReef    |
| 19 | AMJ      | 6 | TOTIA    | 2 | JTM         | 1 | LITAOA      |
| 18 | D-Day    | 5 | ConqOTS  | 2 | Kenya       | 1 | LivingSe    |
| 18 | JTS      | 5 | DinoAliv | 2 | Niagara     | 1 | LOF         |
| 17 | TinyGian | 5 | FightPil | 2 | ROTB        | 1 | MOTN        |
| 14 | ACGOTS   | 5 | GlobSoun | 2 | SpacJunk    | 1 | ND          |
| 12 | Hurrican | 5 | TA       | 2 | ToFly       | 1 | Ocean Oasis |
| 12 | WildAfri | 4 | AMMM     | 2 | Wild Ocean  | 1 | Ozarks      |
| 11 | IncrPred | 4 | CRA      | 1 | AirRacer    | 1 | PTJH        |
| 11 | WWDDPP3D | 4 | Dolphins | 1 | Alaska      | 1 | Pulse       |
| 10 | GWS      | 3 | AOE      | 1 | Amazon      | 1 | Rescue      |
| 10 | JTTSP    | 3 | AsterME  | 1 | DIA         | 1 | SeaMonst    |
| 10 | MA       | 3 | FON      | 1 | DSC         | 1 | SOG         |
| 9  | ExtrWeat | 3 | MOF      | 1 | Earthflight | 1 | TO FLY      |
| 9  | HumpbWha | 3 | MOTUW    | 1 | Everest     | 1 | VanGogh     |
| 9  | MOC      | 3 | Penguins | 1 | GC          | 1 | WATE        |
| 8  | JMCSO    | 3 | TLR      | 1 | Gruffalo    | 1 | WM          |
| 8  | Mummies  | 2 | Animalop | 1 | GruffChi    | 1 | WOTA        |

# Directory of Organizations Mentioned in this Issue of LF Examiner

Distributors' abbreviations are listed in **bold**.

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[www.nagasaki-city.ed.jp/starship/index.html](http://www.nagasaki-city.ed.jp/starship/index.html)

National Air and Space Museum  
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Washington, DC 20560 USA  
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[www.nasm.si.edu/](http://www.nasm.si.edu/)

National Museum of Natural History  
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Washington, DC 20560 USA  
[www.mnh.si.edu](http://www.mnh.si.edu)

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<http://niagamovie.com/>

nWave Pictures  
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# SHORTS

## Euromax meets in Valencia in June

**Euromax**, the European giant-screen association, will meet in Valencia, Spain, June 10–12, and screen 12 new films and ten films in production. **L’Hemisferic**, the city’s architecturally distinctive IMAX Dome theater, will host the event, using its 15/70 film projector and a 4K Barco insert projector.

The new films to be screened and their distributors are:

*America’s Musical Journey* ..... MacGillivray Freeman  
*Australia’s Great Wild North* ..... K2 Communications  
*Backyard Wilderness* ..... SK Films  
*Conquest of the Skies* ..... Serengeti Entertainment  
*Dans les yeux de Thomas Pesquet* .....  
..... Vingt-Cinquième Heure  
*Great Barrier Reef* ..... MacGillivray Freeman Films  
*Mountain Quest* ..... K2 Communications  
*Oceans: Our Blue Planet* ..... Giant Screen Films  
*Pandas* ..... Imax Corporation  
*Planet Power* ..... nWave Pictures Distribution  
*The Story of Earth* ..... December Media Distribution  
*Volcanoes* ..... SK Films

For more information and to register, visit [euromax.org](http://euromax.org).

## GSCA seeks films, award noms

The **Giant Screen Cinema Association** has opened registration, film submissions, and award entries for its 2018 conference and trade show, to be held at the **Tennessee Aquarium** in Chattanooga, Sept. 21–23, with Dome Day at the **McWane Science Center** in Birmingham, AL, Sept. 24.

Early registration for the conference ends on July 20. For more information and to register, visit [giantscreencinema.com](http://giantscreencinema.com).

## Samsung’s LED cinema screen

At the 2018 **CinemaCon** conference in Las Vegas in April, **Samsung** unveiled Onyx, a new LED display system designed specifically for use in movie theaters. The modular system consists of panels of LEDs in a 256x360 array, with a pitch (distance between pixels) of 2.5mm. Ninety-six such panels, mounted seamlessly in a wall 16 panels wide and six tall, deliver a 4K image (4096x2160) that is 33.8 feet (10.3 meters) wide and 17.7 feet (5.4 meters) tall. A wider-pitch configuration that will provide a screen width of 46 feet (14 meters) will be released later this year.

Although the wall can present images at

the standard cinema luminance level (14 fL), it can also be programmed to run at 88 fL, more than six times brighter, or in a “custom” mode, at 146 fL, more than ten times brighter than cinema standard. The system is also 3D capable, with the use of lightweight active glasses.

The cost of the 34-foot wall is reportedly between \$500,000 and \$800,000, about three times the cost of a laser projector.

The benefits of direct-view LED screens include much greater brightness and contrast ratios. Because the panels are matte black, not white or silver, like projection screens, LED displays have much deeper blacks, and because they emit light directly, they can have much brighter whites than are possible with even laser-powered projectors.

To date, seven Onyx screens have been installed in South Korea, Switzerland, China, and Los Angeles, with a total of 30 expected by the end of the year. (For more about emissive displays, see “LED Screens” in the April-May 2017 issue.)

## MacGillivray receives award

**New York Festivals Television and Film Awards** has honored **Greg MacGillivray** with its Lifetime Achievement Award, which recognizes “prominent industry leaders whose accomplishments have advanced their field and made a lasting impression on the industry.” The award was presented at the **NAB Show** in Las Vegas, NV, on April 10.

MacGillivray has been nominated for two Academy Awards for Best Short Subject Documentary: *The Living Sea* (1995) and *Dolphins* (2000).

## Barco kills Escape format

In February, digital projector maker **Barco** shut down its Escape operations, ending the three-screen format that had been installed in 31 locations worldwide starting in 2014. According to **Digital Cinema Report**, “several studios [were] ready to commit to projects,” and negotiations were under way to establish a content partnership with an “internationally known company,” but no deal could be made. Barco was already “streamlining opera-

tions,” so the decision was made to pull the plug on Escape.

As we reported previously (see *Shorts*, March-April 2014, and *Shorts*, September 2015), Escape theaters placed two auxiliary screens, illuminated by two additional projectors, on either side of a theater’s main screen. Content on the side screens could be extensions of the action on the main screen, if the film had been shot for the format, or material digitally re-created after the fact, if not. The first film to be presented in Escape theaters was **Twentieth Century Fox’s** *The Maze Runner*, in September 2014. Several projects were shot specifically for Escape, and in May 2016 Barco predicted there would be 150 Escape theaters by the end of 2017, but a lack of content prevented the company from achieving that goal.

## GS films win at Beijing festival

Two giant-screen films have won awards in the Science and Technology section of the 2018 Beijing Film Festival, held in April. **MacGillivray Freeman’s** *America’s Musical Journey* was presented with the Best Audience Recommendation Award, and **Archipelago Films’** *Backyard Wilderness* won for Best Creativity Film.

## Van Vuuren’s TEDx talk

**Stephen van Vuuren**, director of *In Saturn’s Rings*, spoke at the TEDx Greensboro forum in North Carolina in March. The theme of the event was “Wonder,” and included talks by local residents on holograms, cancer, ghosts, and, in van Vuuren’s case, “Five million photographs from space.”

He told the audience that when people learn that his film consists entirely of millions of real photographs, and no CGI, “I get two questions: How? Why? The ‘why’ is the easy one. I am passionate about images from space, and I wanted to share them on the biggest screens possible. The ‘how?’ That’s the hard part.” The rest of his talk focused on the painstaking process he and dozens of volunteers went through to make the 40-minute over 12 years.

*In Saturn’s Rings* is distributed by **BIG & Digital** and opens May 4.